Historic, Archive Document

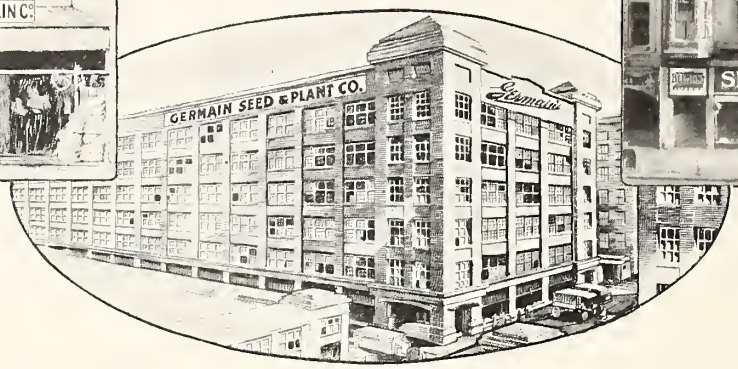
Do not assume content reflects current scientific knowledge, policies, or practices.

SHOUT
SHARE
IT

Uncle Sam Says:
"Plant a Garden
and be a
Soldier of the Soil"-
Oregon Evergreen
Corn
Burpee's
Stringless Green
Pod Beans
Oxheart Carrots
Germain
Los Angeles
1918

The Growth of a Seed Business

1871



1918

1917

The three pictures above represent three periods in the growth of the Germain Seed & Plant Co. The humble store shown at the left was the birthplace of this business, which was founded in 1871. It is reminiscent of the historic old pueblo days of Los Angeles.

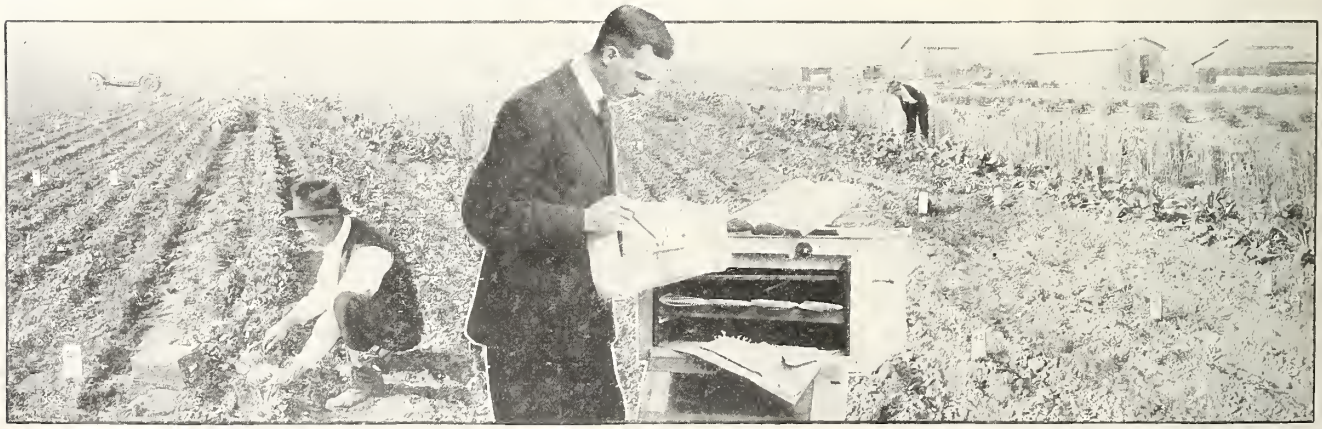
The picture at the extreme right shows the present large retail establishment at 326-328-330 So. Main Street. The business has grown to such extensive proportions that it has been found necessary to remove the wholesale, manufacturing and shipping departments, and also the executive offices, to the building shown in the center of the group. This building is a portion of the great Los Angeles terminal on East Seventh Street. However, our Main Street retail establishment will be continued as heretofore for the benefit of our large and ever-growing retail trade.

The Germain Seed & Plant Company during its nearly half century of existence has kept pace with the remarkable growth of Los Angeles until it is today recognized to be the leading seed house of western America. We maintain valuable connections in all parts of the world which enable us to obtain the best seed grown. Vast fields of seeds are grown by us each year at our various ranches throughout California. We are thus kept constantly supplied with the best and freshest seeds that California produces. Germain's seeds are in demand by leading eastern and foreign seedsmen.

Germain's Proven Seeds are subject to the most rigid test. They are first tested for germination in our laboratory, as shown in the illustration below. They are then planted out in our extensive "trial grounds" on the Whittier Road, in order to prove that the stock is true to name and variety.

Surrounding our trial grounds may be seen hundreds of acres planted to Germain's seeds, which are undergoing the severest of tests—that of producing garden truck, not only for Los Angeles but also for eastern markets.

We are grateful for our large and ever-growing patronage and we have determined to give better service in the future than ever before—and we believe that with our greatly enhanced facilities we can accomplish this end.



TESTING FOR TRUENESS OF TYPE — TESTING SEEDS — SCENE AT TRIAL GROUNDS

HOW to make out Your Order

Germain SEED & PLANT CO. Established 1871
326-328-330 SO. MAIN ST.
LOS ANGELES. CALIFORNIA

Name *George Rice Jr.*
Post Office *R.F.D. 296 El Monte*
County *Los Angeles* State *Cal.*
How Goods are to be sent? Mail *Yes* ~~Express~~ Freight
What ~~Express~~ Office .... ~~Freight~~ Depot

Our Check	Quantity Wanted	Name of Articles Wanted	Total Amount of Order	
		PLANTS only should be ordered on this sheet.		
	100	*Pansy Plants*	*$2*	*00*
	4	*Arizona Ash*	*4*	*00*

Germain SEED & PLANT CO. Established 1871
326-328-330 SO. MAIN ST.
LOS ANGELES, CALIFORNIA

Name

Post Office

County State

How Goods are to be sent? Mail Express Freight

What Express Office Freight Depot

PLANT AND SEED ORDERS SHOULD BE KEPT SEPARATE. Special order sheets for both plants and seeds are furnished. If this procedure is not followed, orders must be separated by us, thus causing some delay in your order. **Seeds will be mailed as soon as possible.** Plant orders are subject to some delays.

DELAY NOTICE. Plants are sent directly from our Montebello Nurseries, subject to about five days' delay on account of compliance with the requirements of the Horticultural Inspector, as we obtain an inspection certificate before shipping. The rush of business is so terrific during the winter and spring in the Nursery Department that orders cannot always be shipped at once. With our present facilities we hope to have but few delays in filling orders. Shipment will be made, however, at the earliest possible moment.

IMPORTANT. When a customer is not located at a county seat, we find it cheaper and quicker to make shipment by express instead of mail. We reserve the right to exercise our own judgment as to best method of shipment, according to size of stock, weight, etc., ordered. We always aim to serve our customers' best interests in this matter. If this is not in accordance with your wishes, please advise us.

ORDER EARLY. It is important that you order as soon after receipt of this catalogue as convenient. We are often hard pressed with orders during the tremendous rush of the spring season, and as all orders are filled in rotation, you will be sure of having your seeds and plants when you want them.

We exercise every care in the selection of the seeds we offer and to this end maintain at a great expense, a Trial Grounds, where extensive tests are made of our seeds. We will not knowingly send out anything but seed of the highest quality and germination, but as a protection against conditions over which we have no control, all sales of seeds, bulbs, plants, trees, etc., are made subject to the following non-warranty:

NON-WARRANTY. The Germain Seed and Plant Company gives no warranty, expressed or implied, as to description, quality, productiveness, or any other matter of seeds, bulbs, plants or trees they send out, and they will not be responsible in any way for the crop. If the purchaser does not accept the goods on these terms they are at once to be returned.

DOMESTIC PARCEL POST RATES On seeds, plants, bulbs, roots, books tools, etc., within the U. S. and possessions	First lb. or fraction	Each add'l lb. fraction
First Zone—Los Angeles and within 50 miles	5c	1c
Second Zone, within 50 to 150 miles....	5c	1c
Third Zone, within 150 to 300 miles....	6c	2c
Fourth Zone, within 300 to 600 miles....	7c	4c
Fifth Zone, within 600 to 1000 miles....	8c	6c
Sixth Zone, within 1000 to 1400 miles....	9c	8c
Seventh Zone, within 1400 to 1800 miles....	11c	10c
Eighth Zone, all over 1800 miles....	12c	12c

For parcels weighing 8 ounces or less, containing seeds, bulbs or books only, the rate of postage to all zones is 1 cent for 2 ounces or fraction. (Over 8 ounces the parcels post rates apply.)

For parcels containing fourth class matter—other than the above—up to 4 ounces is permitted to all zones at 1 cent per ounce. (Over 4 ounces the above zone rates apply.)

Correspondents in foreign countries should add postage at the rate of 12 cents per pound.

Our Check	Quantity Wanted	Name of Article Wanted	Total Amount of Order	
		PLANTS only should be ordered on this sheet		
		CARRIED FORWARD		

[See Over]

Our Check	Quantity Wanted	Name of Articles Wanted	Total Amount of Order
		BROUGHT FORWARD	

HOW to make out Your Order

Germain Established 1871 SEED & PLANT CO. 326-328-330 SO. MAIN ST. LOS ANGELES, CALIFORNIA

Name George Rice Jr.
Post Office R.F.D. 296 El Monte
County Los Angeles State Cal.
How Goods are to be sent? Mail Yes. ~~Express~~ ~~Freight~~
~~What Express Office~~ ~~Freight Depot~~

Our Check	Pkt.	Oz.	Lb.	Name of Articles Wanted	Total Amount of Order	
			6.	Germains Improved White		
				Kentucky Wonder Bean	2.	40
		1.		Germains Winter Queen Tomato		50
1.				Casads Improved Muskmelon		25

Germain Established 1871 SEED & PLANT CO. 326-328-330 SO. MAIN ST. LOS ANGELES, CALIFORNIA

Name _____

Post Office _____

County _____ State _____

How Goods are to be sent? Mail _____ Express _____ Freight _____

What Express Office _____ Freight Depot _____

PRICES. Our prices include postage, or expressage prepaid, on seed items, up to one pound, except where otherwise noted. Exceptions appear under main headings as follows:

NOTE. Prices on half-pound and pound quantities include postage or expressage prepaid. When sent otherwise, deduct 10 cents per pound or fraction thereof. Prices listed for larger quantities if desired sent by Parcel Post, necessary postage should be added. See our Parcel Post Schedule on page 1. If quantities are desired, do not fail to write for special prices.

C. O. D. ORDERS. Must be accompanied by a remittance equal to one-fourth of the amount of the order, excepting on nursery stock. Instructions on this latter item will be found on the special order sheet for plants.

PLANTS. Do not order plants on this sheet. Plants and seed orders should be kept separate, as we cannot ship them together. During our rush season the Horticultural Inspectors are so busy that they often delay us up to five days. In cases where the nursery stock cannot be shipped at once, the seed orders will be shipped immediately, and the balance of the order will follow when ready. Please use the special sheet for plant orders.

ORDER EARLY. It is important that you order as soon after receipt of this catalogue as convenient. We are often hard pressed with orders during the tremendous rush of the spring season, and as all orders are filled in rotation, you will be sure of having your seeds and plants when you want them.

We exercise every care in the selection of the seeds we offer and to this end maintain at a great expense, a Trial Grounds, where extensive tests are made of our seeds. We will not knowingly send out anything but seed of the highest quality and germination, but as a protection against conditions over which we have no control, all sales of seeds, bulbs, plants, trees, etc., are made subject to the following non-warranty:

NON-WARRANTY. The Germain Seed and Plant Company gives no warranty, expressed or implied, as to description, quality, productiveness, or any other matter of seeds, bulbs, plants or trees they send out, and they will not be responsible in any way for the crop. If the purchaser does not accept the goods on these terms they are at once to be returned.

DOMESTIC PARCEL POST RATES On seeds, plants, bulbs, roots, books tools, etc., within the U. S. and possessions	First lb. or fraction	Each add'l lb. fraction
First Zone—Los Angeles and within 50 miles	5c	1c
Second Zone, within 50 to 150 miles....	5c	1c
Third Zone, within 150 to 300 miles....	6c	2c
Fourth Zone, within 300 to 600 miles....	7c	4c
Fifth Zone, within 600 to 1000 miles....	8c	6c
Sixth Zone, within 1000 to 1400 miles....	9c	8c
Seventh Zone, within 1400 to 1800 miles....	11c	10c
Eighth Zone, all over 1800 miles....	12c	12c

For parcels weighing 8 ounces or less, containing seeds, bulbs or books only, the rate of postage to all zones is 1 cent for 2 ounces or fraction. (Over 8 ounces the parcels post rates apply.)

For parcels containing fourth class matter—other than the above—up to 4 ounces is permitted to all zones at 1 cent per ounce. (Over 4 ounces the above zone rates apply.)

Correspondents in foreign countries should add postage at the rate of 12 cents per pound.

Our Check	Pkt.	Oz.	Lb.	Name of Articles Wanted	Total Amount of Order	
				PLANTS should not be ordered on this sheet		

CARRIED FORWARD

Our Check	Pkt.	Oz.	Lb.	Name of Articles Wanted	Total Amount of Order
				BROUGHT FORWARD	

Seeds by Mail

Our prices on flower seeds and vegetable seeds up to and including one pound in weight include postage or expressage prepaid. When the order is to be sent otherwise, deduct 10 cents for each pound, or fraction thereof. If large quantities are to be sent by parcels post the necessary postage should be added. See parcels post schedule below. Correspondents in foreign countries should add a sufficient amount for postage at the rate of 12 cents per pound.

PARCELS POST. Since the installation of the new parcels post law seeds, bulbs, tools, plants and garden supplies (excepting poisons and liquids) may be sent by mail to all parts of the United States, including Alaska, Canal Zone, Guam, Hawaii, Porto Rico and the Philippines. Packages are subject to a limit of maximum weight in the first and second zone of 50 pounds; in all other zones of 20 pounds. The maximum size of a package is 72 inches for combined lengths and largeness of the girth.

ZONE RATES. May be had by applying to your postmaster, who will tell you which zone you are in with reference to Los Angeles or upon application we will tell you as nearly as we can.

DOMESTIC PARCEL POST RATES On seeds, plants, bulbs, roots, books, tools, etc., within the U. S. and possessions	First lb. or fraction	Each add'l. lb fraction
First Zone—Los Angeles and within 50 miles	5c	1c
Second Zone, within 50 to 150 miles....	5c	1c
Third Zone, within 150 to 300 miles...	6c	2c
Fourth Zone, within 300 tp 600 miles...	7c	4c
Fifth Zone, within 600 to 1000 miles...	8c	6c
Sixth Zone, within 1000 to 1400 miles...	9c	8c
Seventh Zone, within 1400 to 1800 miles...	11c	10c
Eighth Zone all over 1800 miles.....	12c	12c

For parcels weighing 8 ounces or less, containing seeds, bulbs or books only, the rate of postage to all zones is 1 cent, for 2ounces or fraction. (Over 8 ounces the parcels post rates apply).

For parcels containing fourth class matter—other than the above—up to 4 ounces is permitted to all zones at 1 cent per ounce. (Over 4 ounces the above zone rates apply).

Non-Warranty

Success with seeds, bulbs and plants depends as much upon the proper planting, soil, water, weather and other conditions as upon the seed.

We exercise every care in the selection of the seeds we offer and to this end maintain, at a great expense, a Trial Grounds where extensive tests are made of our seeds. We will not knowingly send out anything but seed of the highest quality and germination, but as a protection against conditions over which we have no control, all sales of seeds, bulbs, plants, trees, etc., are made subject to the following non-warranty:

The Germain Seed and Plant Company gives no warranty, expressed or implied, as to description, quality, productiveness, or any other matter of seeds, bulbs, plants or trees they send out, and they will not be responsible in any way for the crop. If the purchaser does not accept the goods on these terms they are at once to be returned.

Government Bulletins and How to Get Them

Do you know that the government prints bulletins for farmers and gardeners, which give valuable, detailed information about how to plant, care for and harvest crops? There is a bulletin for almost every crop a planter may be interested in, yet few know about this. A part of the money you pay for taxes is used to maintain the agricultural department of the government, and therefore, merely for the asking, you can secure a tremendous amount of reliable information on all branches of farming and gardening. Recently we asked the University of California for a list of their available bulletin publications, to which Professor D. W. Morgan replied in part as follows: *"We shall be glad to have you incorporate our list of available publications in your next catalog."* Owing to our limited space we are unable to print this list here, but will be glad to forward it upon request.

The California State Government as well as the U. S. Government maintains an exceedingly competent corporation of agriculturists and scientists who are untiring in their work of piling up valuable statistical farming data, concerning everything from the proper way to judge land right down to the harvesting and successful marketing of crops. Every step of the way is covered and if one is in doubt regarding a certain method or as to the desirability of a crop or when same is generally marketed, a letter requesting data along this line directed properly either to the State or U. S. Agricultural Officials will bring same to you promptly. Extremely valuable information as to average crop yields, total yields, national or state, reports on growing crops, cultural bulletins on all crops which have been tried in the United States, and as to whether they are advisable to plant or not. Difficulties in farming different crops are fully analyzed in other bulletins, so all in all, we have solved for us already, by the Government, many farming problems which means the saving of cold cash. If only everyone knew of this, far greater efficiency could be obtained in all farming operations, so the thing to do is to send at once for a complete listing of all Bulletins issued. If you wish to address the U. S. Government, direct your letters as follows:

Division of Publications, U. S. Department of Agriculture, Washington, D. C.

To address the California State Agricultural Department, direct as follows:

University of California, College of Agriculture, Agricultural Experiment Station, Berkeley, California.

A WORD ABOUT BULLETINS WE ISSUE

We have always been keenly alive to the great benefit explanatory crop bulletins offer to the growers and so have taken great pleasure in covering some of the newer crops. Some of these we have introduced and it has always been our aim to be of every assistance possible to those who plant seeds. Cultural directions are vital indeed and it requires a lot of study and a great deal of care to secure reliable data. Crops must be watched and tabulated carefully, because the wrong information might lead to great disappointment, and as we appreciate the good will of our patrons, we make every effort to have all information issued from our establishment absolutely correct. Therefore we have applied ourselves to the writing of valuable bulletins in which not only cultural directions are given but other interesting and valuable information. We have plenty of these pamphlets which cover the following subjects:

Alfalfa—Hairy Peruvian
" —Common Varieties
Saccharine and Non-Saccharine Sorghum.
Sudan Grass
Soy Beans
Cow Peas
Melilotus Indica
Melilotus Alba
Inoculation
Tepary Beans
Mushrooms
Making and Caring for Lawns
Stock and sugar beets
Formaldehyde-for use on potatoes, etc.

Besides these we have much interesting literature, as well as other Bulletins on flowers, spray material, etc. From time to time new subjects are added. Any of these are free upon request. Avail yourself of this information.

ARE YOU INTERESTED IN POULTRY?

Send for our complete Poultry Supply Calalog, which contains information valuable to every poultryman.

United States Food Administration License No. G 16084

GERMAIN'S PLANTING CHART

VARIETY	Seed for 100 ft. row	Seed for 1 acre	Time of Planting	Put Rows Apart	Leave Plts Apart in Row	Crop Matures in about	Depth of Planting
Artichoke, Globe	2 Pkts.	12 oz. T.	October to May	5 ft.	3 ft.	2nd Spring	1 inch
Artichoke, Plants	32 Plants	3000 P	Dec. to April	5 ft.	3 ft.	Next Spring	.....
Artichoke, Jerusalem	3 lbs.	300 lbs.	December to May	4 ft.	3 ft.	Late Summer	3 inches
Asparagus Seed	1 oz.	2 lbs. T.	February to May	6 ft.	3 ft.	Third Spring	1 inch
Asparagus Plants	32 Plants	11000 P	December to May	4 ft.	1 ft.	Next Spring	.....
Beans, Bush	1 lb.	60 lbs.	Jan. to September	3 ft.	6 in.	2 to 3 Months	1 to 2 inches
Beans, Pole	¾ lb.	50 lbs.	Jan. to September	3 ft.	1½ ft.	2 to 3 Months	1 to 2 inches
Beet, Table	2 oz.	10 lbs.	All year	2 ft.	6 in.	3 to 3½ Months	¾ inch
Beet Stock	2 oz.	8 lbs.	September to May	3 ft.	1 ft.	4 to 6 Months	1 inch
Broccoli	1 Pkt.	4 oz. T.	Nov. to April	2½ ft.	1 ft.	3½ Months	¼ inch
Brussels Sprouts	2 Pkts.	4 oz.	October to May	2½ ft.	1½ ft.	5 Months	½ inch
Cabbage, Early	1 Pkt.	8 oz. T.	All Year	2½ ft.	2 ft.	3 to 4 Months	½ inch
Cabbage, Late	1 Pkt.	8 oz. T.	All Year	2½ ft.	2 ft.	4 to 5 Months	½ inch
Carrot	1 oz.	4 lbs.	All Year	24 in.	6 in.	4 Months	¼ to ½ inch
Cauliflower	¼ oz.	4 oz. T.	June to January	3 ft.	2½ ft.	4 to 6 Months	½ inch
Celery	2 Pkts.	5 oz. T.	January to May	3 ft.	6 in.	4 to 5 Months	Very shallow
Celeriac	1 Pkt.	6 oz.	January to May	1 ft.	2½ ft.	.....	⅛ inch
Chervil	3 Pkts.	1 lb.	Jan. to August	30 in.	5 in.	2 Months	¼ inch
Chives	2 Pkts.	2 lbs.	September to May	30 in.	5 in.	3 to 4 Months	¾ inch
Collards	1 Pkt.	8 oz. T.	All Year	30 in.	15 in.	4 Months	½ inch
Chicory	2 Pkts.	4 lbs.	September to May	30 in.	8 in.	2 to 3 Months	¼ inch
Corn Salad	1 oz.	5 lbs.	Feb. to Nov.	30 in.	8 in.	2 to 3 Months	¼ inch
Corn, Sweet	½ lb.	10 lbs.	March to Sept.	36 in.	12 in.	2½ to 3 Months	1 inch
Cucumber	2 Pkts.	2 lbs.	March to Sept.	6 ft.	4 ft.	2 to 3 Months	1 inch
Dandelion	1 Pkt.	¾ lb.	Sept. to April	30 in.	10 in.	3 Months	⅛ inch
Egg Plant	1 Pkt.	4 oz. T.	January to August	30 in.	2 ft.	4 Months	½ inch
Endive	1 oz.	3 lbs.	August to May	30 in.	8 in.	3 Months	½ inch
Garlic (sets)	2 lbs.	300 lbs.	Sept. to March	30 in.	6 in.	5 to 6 Months	.....
Horse Radish	70 Plants	10000 P	December to May	30 in.	18 in.	6 Months	.....
Kale	2 Pkts.	2 lbs.	All Year	30 in.	18 in.	2 to 3 Months	½ inch
Kohlrabi	1 Pkt.	4 lbs.	All Year	30 in.	6 in.	4 Months	½ inch
Leek	½ oz.	4 lbs.	Sept. to April	24 in.	6 in.	4 Months	½ inch
Lettuce	3 Pkts.	3 lbs.	All Year	24 in.	8 in.	2 to 3 Months	½ inch
Melons, Musk	2 Pkts.	1½ lbs.	March to July	6 ft.	4 ft.	3 to 4 Months	1 inch
Melons, Water	1 oz.	2 lbs.	March to July	8 ft.	6 ft.	3 to 4 Months	1 inch
Mustard	1 Pkt.	2 lbs.	All Year	4 ft.	2½ ft.	3 to 5 Weeks	½ inch
Okra	1 oz.	8 lbs.	April to July	3 ft.	2 ft.	3 Months	1 inch
Onion seed	½ oz.	3 lbs.	Sept. to April	24 in.	5 in.	4½ to 6 Months	1 inch
Onion sets	2 lbs.	300 lbs.	All Year	18 in.	3 in.	2 to 4 Months	.....
Onion Seed for Sets	2 oz.	40 lbs.	All Year	2 ft.	Drill	2 to 3 Months	.....
Parsley	1 Pkt.	4 lbs.	All Year	24 in.	6 in.	3 Months	Very shallow
Parsnips	2 Pkts.	6 lbs.	All Year	30 in.	8 in.	4 Months	½ inch
Peas	1 lb.	75 lbs.	All Year	36 in.	3 in.	2 to 4 Months	2 inches
Pepper	1 Pkt.	6 oz. T.	January to July	36 in.	18 in.	3 to 4 Months	½ inch
Potatoes	5 lbs.	600 lbs.	Dec. to Sept.	36 in.	10 in.	2 to 3 Months	5 inches
Potatoes, Sweet	70 Plants	10000 P	March to July	36 in.	18 in.	3 to 4 Months	3 inches
Pumpkin	2 Pkts.	2 lbs.	March to August	10 ft.	8 ft.	3 to 4 Months	1 inch
Radish	1 oz.	12 lbs.	All Year	18 in.	3 in.	1 to 2 Months	½ inch
Rhubarb	2 Pkts.	4 ozs.	January to April	5 ft.	3 ft.	2nd Spring	½ inch
Rhubarb Roots	33 Roots	3000 P	December to May	5 ft.	3 ft.	Next Spring	2 inches
Salsify	.....	8 lbs.	February to Oct.	30 in.	4 in.	4 Months	1 inch
Spinach	1 oz.	20 lbs.	All Year	24 in.	2 in.	40 to 65 Days	1 inch
Squash, Bush	2 Pkts.	3 lbs.	February to Oct.	4 ft.	3 ft.	2 Months	1½ inch
Squash, Running	2 Pkts.	2 lbs.	February to Aug.	8 ft.	6 ft.	3 to 4 Months	1½ inch
Tomato, Seed	1 Pkt.	3 oz. T.	February to Aug.	5 ft.	3 ft.	4 to 5 Months	½ inch
Tomato, Plants	35 Plants	3000 P	March to Oct.	5 ft.	3 ft.	2 to 3 Months	.....
Turnip	2 Pkts.	4 lbs.	All Year	24 in.	6 in.	3 to 4 Months	½ inch
Turnip Swede or Rutabaga	2 Pkts.	3 lbs.	All Year	24 in.	8 in.	3 to 4 Months	½ inch

T.—In the quantity column means these varieties are to be sown in hot bed and transplanted to the field.

FIELD SEEDS	Lbs. per Acre
Alfalfa	20
Beans Field	
Tepary	10
Pink	30
Navy	20
Sojo	30
English or Broad	50
Buckwheat	30
Clover	
Alsike	10
Burr Clover	15
Crimson	15
Egyptian	15
Japanese	15
Melilotus Indica	20
Melilotus Alba	15
Red	15
White	12
Corn	
Field	10
Ensilage	75
Egyptian	6
Kaffir	6
Feterita	6
Milo Maize	6

FIELD SEEDS	Lbs. per Acre
Corn (Cont.)	
Egyptian Wheat	6
Broom	15
Flax	30
Grain	
Barley	100
Oats	80
Rye	60
Spelts	50
Grass	
Alfileria	5
Aus. Salt Bush	1½
Bermuda	10
Brome	20
Crested Dogstail	30
Ky. Blue for Pasture	50
Ky. Blue for Lawn	175
Orchard	35
Rye	10
Red Top	15
Timothy	20
Hungarian	30
Mesquite	35
Hemp	25

FIELD SEEDS	Lbs. per Acre
Grass (Cont.)	
Sudan Drill	3
Sudan Broadcast	10
Millets	
Pearl, Drills	6
Pearl, Broadcast	30
Common	30
German	30
Hungarian	40
Japanese	35
Siberian	30
Peas, Field	
Canadian	75
Blue Prussian	75
Garbanza	40
Lentils	40
Pea, Cow	
Whippoorwill	50
Blackeye	30
New Era	50
Peanuts in Shell	35
Rape	5
Rice	80
Sunflower	4

SPACING AND NUMBER PLANTS PER ACRE

Distance Apart	No. of Trees or Plants per Acre	Dist. Apart	No. of Trees or Plants per Acre
3 by 4 in.	522,720	6 by 8 ft.	907
4 by 4 in.	392,040	6 by 9 ft.	806
6 by 6 in.	174,240	6 by 10 ft.	726
1 by 1 ft.	43,560	7 by 7 ft.	888
1½ by 1½ ft.	19,360	8 by 8 ft.	680
2 by 1 ft.	21,780	9 by 9 ft.	537
2 by 2 ft.	10,890	10 by 10 ft.	435
2½ by 2½ ft.	6,960	11 by 11 ft.	360
3 by 1 ft.	14,520	12 by 12 ft.	302
3 by 2 ft.	7,260	14 by 14 ft.	222
3 by 3 ft.	4,840	15 by 15 ft.	193
3½ by 3½ ft.	3,555	16 by 16 ft.	170
4 by 1 ft.	10,890	16½ by 16½ ft.	160
4 by 2 ft.	5,445	17 by 17 ft.	150
4 by 3 ft.	3,630	18 by 18 ft.	134
4 by 4 ft.	2,722	19 by 19 ft.	120
4½ by 4½ ft.	2,150	20 by 20 ft.	108
5 by 1 ft.	18,712	25 by 25 ft.	69
5 by 2 ft.	4,356	.....	..
5 by 3 ft.	2,904	30 by 30 ft.	48
5 by 4 ft.	2,178	33 by 33 ft.	40
5 by 5 ft.	1,742	40 by 40 ft.	27
5½ by 5½ ft.	1,440	50 by 50 ft.	17
6 by 6 ft.	1,200	60 by 60 ft.	12
6½ by 6½ ft.	1,031	66 by 66 ft.	10
6 by 7 ft.	1,031		

Catalog Prices Subject to Change Without Notice.

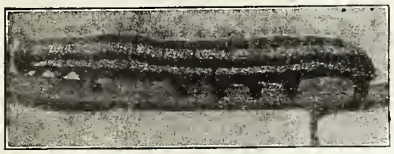
Due to extremely unsettled conditions in the seed market this year we find it necessary to make all catalog prices subject to change without notice. At all times we shall have in mind our customers' welfare, and prices will be consistent with the market.

Germain's 'Garden Pest Control' Pointers

The matter of garden pests is of vital interest to everyone who is planting a garden, no matter how large or small. It is very disheartening to say the least, to put in a lot of work and time in planting and taking care of a garden and have it visited by a large number of insects who seem intent upon destroying all the vegetation.

However, getting rid of these pests is a simple matter, provided one learns the rudiments of the game—and that is to learn the fact that insects are of different types requiring different methods of control and that there is no one particular remedy which is a cure-all for insect pests and plant diseases.

In general there are a number of different classes of garden pests which can be segregated as follows:



The photograph shows the common cutworm, a member of Class I. This pest is universal throughout the country and does an unusual amount of damage yearly. The best means of control is by the "Poison Bait" method, which is described in our book entitled "Garden Pests and Their Control". This book is mailed free of charge.

The very common and unpopular "Green Aphis" or "Green Louse" is shown above. This is the pest we find clustered thickly on the rosebuds in the spring of the year. This insect is a member of Class II and can easily be controlled by using a tobacco solution such as Floral Nicotine.

Above we have the well known "Mealy Bug," a member of Class II. The Mealy Bug belongs to the scale family and is a very hard insect to control. Lemon Oil Insecticide on tender plants, and Rosin Spray on more hardy ones is the best remedy.

Class 1. The Chewing Insect, or as otherwise known, the leaf-eating insects. In this class are found all caterpillars, beetles, worms, larva, grubs, etc. These destroy plant life by eating the plants. To control them it is only necessary to coat the plants with a thin layer of poison so that in eating the plant or any part of it they get some poison also and are quickly killed. This is the remedy used on practically all the apples that we eat to keep out the apple worm, on cabbage to keep out the cabbage worm, on potatoes against the potato beetle, on corn against the corn ear worm, and in many other instances.

Class 2. Another class is known as the **sucking insects.** The most common one of this type is the green aphis or louse that is always present on our rose bushes in the spring of the year. Instead of eating the plant, these insects have a mouth part acting like a mosquito's in that they thrust it underneath the surface of the leaf or the stem and suck the juice of the plant. In this class we find all the plant lice, all the scale insects, mealy bug, red spider, thrips, hoppers, and many, many others.

Class 3. The next class of garden troubles is known as the plant disease section. Here we find the common mildew, the blights, the rusts, and the various other fungous and bacterial diseases. The fungous diseases are comparatively easy to control, while the bacterial diseases such as walnut blight, pear blight, etc., are almost impossible to control.

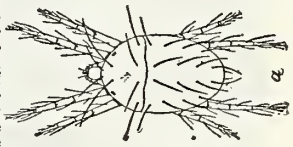
Class 4. There are also the classes among which are included the root worms which cannot be controlled by insecticides, and the rodents as typified by the gophers and squirrels.

At the bottom of this page you will find what is termed "Germain's Spraying Guide." This has been prepared with great care and is comparatively easy to use. For example, if a plant is bothered with the green aphis, you will notice the column under 'Green Aphis," marks opposite Black Leaf 40, Floral Nicotine, Fish Oil Soap, and Sulpho Tobacco Soap, showing that any of these materials can be used effectively. The explanations for the letters used in the table are shown at the bottom of the page.

The figure to the left shows the various stages in the life history of the "Codling Moth." This moth which is shown in the figure lays the egg which hatches out into the worm which we find so often in apples.

Use Corona Dry when the trees are in blossom.

The crumpled leaf shows the results of a fungous trouble common to peach trees, known as "Peach Leaf Curl." Use Soluble Sulphur, or Bordeaux Mixture just as buds are swelling in the spring.



Germain's Spraying Guide FOR Insect Pests, Etc.

	Class I Chewing Insects										Class II. Sucking Insects												Class III. Diseases										Miscellaneous									
	Cabbage Worm	Canker Worm	Caterpillar	Codling Moth	Corn Ear Worm	Cucumber Beetle	Cut Worm	Grape Worm	Grasshopper	Tomato Worm	Black Aphis	Cabbage Worm	Grape Leaf Hopper	Green Aphis	Thrips	Woolly Aphis	Black Scale	Brown Scale	Purple Scale	Red Scale	Yellow Scale	Mealy Bug	Oyster Shell Scale	San Jose Scale	Asparagus Rust	Blight	Gum Disease	Mildew	Moss-Lichens	Peach Leaf Curl	Pear Scab	Potato Blight	Potato Scab	Rust	Shot Hole Fungus	Red Spider	Slug Snails	Grain Smut	Weevil	Weeds	Ants	Bed Bugs	Roaches	Gophers	Squirrels
Black Leaf 40											X	X	X	X	X	X																													
Bluestone																																						X							
Bordeaux Mixture																									X	B	B	X		X	X	X		B	X										
Carbon Bisulphide																									B			B									X									
Corona Dry	B	B	B	B	B	B	B	B	B	B																											X									
Corona Sulphur																									B			B								B										
Fish Oil Soap														X																																
Floral Nicotine											X	X	X	X	X	X																														
Formaldehyde																																	B					X								
Gophergo																																														
Lemon Oil											T	T	T	T	T	T	T	T	T	T	T	T																							
Lime Sulphur																							X	X		X		X	X	X	X	X		X	X	X										
Kilmol																																														
Nicofume Liquid											G		G	G	G																															
Nicofume Paper											G		G	G	G																															
Poisoned Barley																																														
Rosin Spray																	B	B	B	B	B	B																								
Slug Shot	X					X																																X								
Soluble Sulphur																							B	B		X		X	B	B	X	X		X	B	X										
Sulpho Tobacco Soap											X	X	X	X	X																															
Sulphur																									X			X								X										
Talbot's Ant Powder																																										X				
Talbot's Bed Bug "																																											X			
Talbot's Roach "																																												X		
Tree Tanglefoot																																										X				
Watch-it-Get-Em Ant																																										B				
Bed Bug																																											B			
Roach																																												B		
Weed Killer																																								X						

B—Best material to use
T—Use on tender plants
X—Commonly used
G—For Greenhouse use

In general we recommend Corona Dry for Chewing insects and Floral Nicotine for plant lice. See pages 109 to 115 for prices and description of materials.

Look for this seed case when ever you buy your seeds. Merchants throughout California recommend and sell Germain's Seeds. Our cases always filled with new seed. A fine assortment, so it is easy to make your seed purchases.

Do you know what to plant and when? If not you will find a planting chart for vegetables and flowers on the top of each wing panel of our seed case. Our aim is to help you succeed with your garden. Any information you want we will gladly give. Write us.

Germain's HOME GARDEN COLLECTIONS

SMALL VEGETABLE GARDEN,

PRICE 50 CENTS PREPAID

1 pkt. Beet
1 pkt. Cabbage
1 pkt. Cauliflower
1 pkt. Carrot
1 pkt. Cucumbers
1 pkt. Lettuce
1 pkt. Peas
1 pkt. Muskmelon
1 pkt. Watermelon
1 pkt. Onion
1 pkt. Parsley
1 pkt. Parsnip
2 pkt. Radish (long and turnip)
1 pkt. Tomato
1 pkt. Turnip

MEDIUM VEGETABLE GARDEN,

PRICE $1.00 PREPAID

½ lb. Peas, Early
½ lb. Beans, String
½ lb. Beans, Wax
½ lb. Sweet Corn
1 pkt. Beet
1 pkt. Cabbage
1 pkt. Cauliflower
1 pkt. Carrot
1 pkt. Celery
1 pkt. Cucumber
1 pkt. Corn Salad
1 pkt. Egg Plant
1 pkt. Kohl Rabi
1 pkt. Leek
1 pkt. Lettuce
1 pkt. Muskmelon
1 pkt. Onion
1 pkt. Parsley
1 pkt. Pepper
1 pkt. Pumpkin
1 pkt. Turnip
2 pkts. Radish, Long & Turnip
1 pkt. Tomato
1 pkt. Watermelon

LARGE VEGETABLE GARDEN, $2.50 PREPAID

1 lb. Peas, Early
½ lb. Peas, Late
1 lb. Beans, String
½ lb. Beans, Wax
1 oz. Beet
1 pkt. Brussels Sprouts
1 pkt. Cabbage, Early
1 pkt. Cabbage, Late
1 pkt. Cauliflower
1 oz. Carrot, Long
1 oz. Carrot, Danvers
1 pkt. Celery
½ lb. Sweet Corn
2 pkts. Cucumber
1 pkt. Corn Salad
1 pkt. Egg Plant
1 pkt. Kohl Rabi
1 pkt. Kale, Tall Scotch
1 pkt. Leek
1 oz. Lettuce, Head
1 oz. Lettuce, Curled
2 pkts. Muskmelon
1 pkt. Watermelon
1 pkt. Mustard
1 pkt. Onion, White
1 pkt. Onion, Yellow
1 oz. Parsley
1 oz. Parsnip
2 pkts. Pepper
1 pkt. Pumpkin
2 oz. Radish, Long
2 oz. Radish, Turnip
1 pkt. Rhubarb
1 oz. Spinach
1 pkt. Squash
1 pkt. Tomato, Early
1 pkt. Tomato, Late
1 oz. Turnip, White
1 pkt. Turnip, Yellow
1 pkt. Sage
1 pkt. Thyme

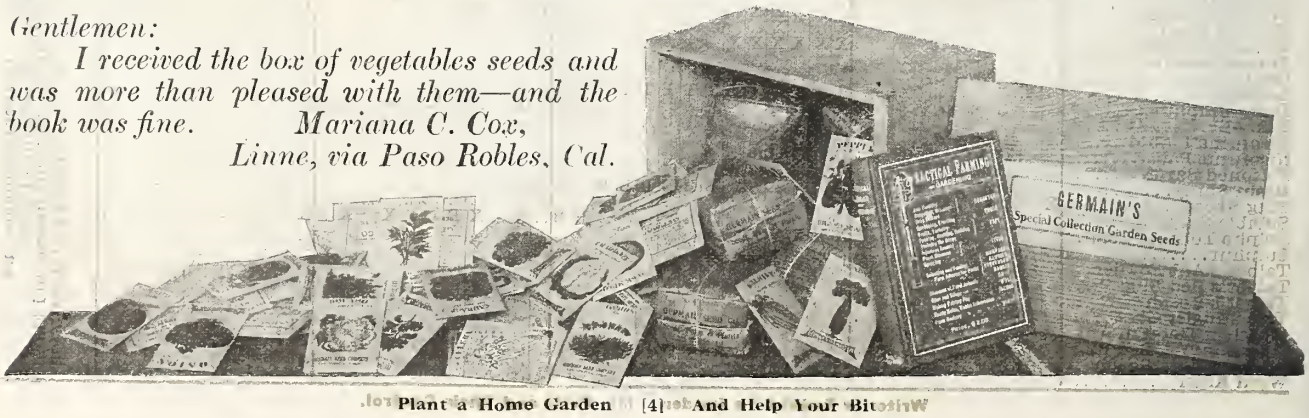
GERMAIN'S COUNTRY HOME COLLECTION, PRICE $5.00

Sent by Express prepaid free to any express office in the U. S. or Mexico. This includes a copy of "Practical Farming and Gardening," a standard book which sells for $2.00 retail.

1 lb. Peas, Impd. Yorkshire Hero
1 lb. Peas, Amer. Wonder
1 lb. Beans, 6 Weeks
1 lb. Beans, Golden Wax
1 lb. Beans, Ky. Wonder
1 oz. Beet, Eclipse
1 oz. Beet, Bassano
1 pkt. Brussels Sprouts
1 pkt. Cabbage, Winnigstadt
1 pkt. Cabbage, Succession
1 pkt. Cabbage, Drumhead
1 oz. Carrot, Long Orange
1 oz. Carrot, Danvers
1 pkt. Cauliflower, Snowball
1 pkt. Celery, Golden Self-blanching
1 lb. Sweet Corn, Stowells
1 lb. Sweet Corn, Early Mammoth
1 pkt. Corn Salad
1 oz. Cucumber, White Spine
1 oz. Cucumber, Long Green
1 pkt. Egg Plant, New York
1 pkt. Endive, Green Curled
1 pkt. Kale, Dwarf Curled
1 oz. Lettuce, Big Boston
1 oz. Lettuce, Iceberg
1 oz. Muskmelon, Rockyford
1 pkt. Muskmelon, Hackensack
1 oz. Watermelon, Germain's Chilian
1 pkt. Okra, White Velvet
1 oz. Onion, New Queen
1 pkt. Onion, Red Wethersfield
1 pkt. Onion, Yellow Danvers
1 oz. Parsley, Moss Curled
1 oz. Parsnip, Hollow Crown
1 pkt. Pepper, Mexican Chili
1 pkt. Pepper, Sweet Mountain
1 oz. Pumpkin, Mammoth Tours
2 oz. Radish, Scarlet Turnip
2 oz. Radish, French Breakfast
1 oz. Radish, White Icicle
1 pkt. Salsify, Sandwich Island
1 oz. Spinach, Prickly
1 oz. Spinach, Round
1 oz. Squash, Hubbard
1 pkt. Squash, White Bush
1 pkt. Tomato, Beefsteak
1 pkt. Tomato, Stone
1 oz. Turnip, Purple Top Strap Leaf
1 oz. Turnip, Golden Ball
1 pkt. Sage
1 pkt. Thyme
1 pkt. Sweet Marjoram
1 Book, "Practical Farming and Gardening," Selling Price $2.00

Gentlemen:

I received the box of vegetables seeds and was more than pleased with them—and the book was fine. *Mariana C. Cox,*
Linne, via Paso Robles, Cal.



—plant SUDAN HAY now and profit by the Nation's hay shortage

Sudan hay has wonderful drouth-resisting ability and is especially adapted to arid and semi-arid countries.

Sudan has been grown to a greater or lesser extent in almost every county in the state. It grows in a wide range of soils from sand to clay.

The plant has remarkable ability to make use of very limited soil moisture. It grows so tall and thick that weeds have no chance to grow.

There are many cases on record where farm stock with long hours and heavy work have been kept in good condition with Sudan hay without any grain ration.

Note that the acre yield of protein in Sudan hay is twice as great as that of timothy hay and at least a fourth more than rye grass or barley hay.

¼ lb. 15c; lb. 35c. Write for quantity prices.

Imperial, Cal., December 11, 1917.

Germain Seed and Plant Co.
Dear Sirs:

I recently finished threshing the grain stack which comprises the first crop of my Sudan Grass. The seed for this I secured from you and planted about April fifteenth last. Put in with the ground wet, the crop was raised with only one irrigation, and was matured and harvested the latter part of July, producing as I find now, fifty tons of straw. The second growth was made simply a hay crop, matured with two irrigations, in five weeks, and yielding sixty tons of choice hay. In this climate another hay crop could easily have been secured on this ten acre patch, but I preferred to use the field for pasture and have done so twice since mid-September.

The field is now planted to barley drilled in with the Sudan, and will soon be ready to pasture again. Then, after still another pasturing in January, I intend to let the two grain crops mature together for a bumper yield of hay in the early spring.

I find that my thorobred Jersey cows are very fond of the Sudan hay and their milk production has demonstrated its feeding value. The work stock also thrive upon it.

For all of the above mentioned reasons, therefore, I am convinced that Sudan Grass is one of the great "coming" grain crops. When one ten acre field will do what I have said, who can doubt such a prediction?

Very truly yours,
J. D. HUSTON.

214 UNIVERSITY OF CALIFORNIA—EXPERIMENT STATION

When the nutritive value per unit of area is considered, Sudan grass is superior to any of the other grain hays because of its higher yield. The average yield of Sudan grass hay from all non-irrigated tests during the first three years has been 8640 pounds per acre. Under similar conditions 4000 pounds per acre is considered a good yield for either barley, rye grass or timothy hay.

In Table VI is shown the feeding value per acre of the grass hays given in the previous table, based on composition.

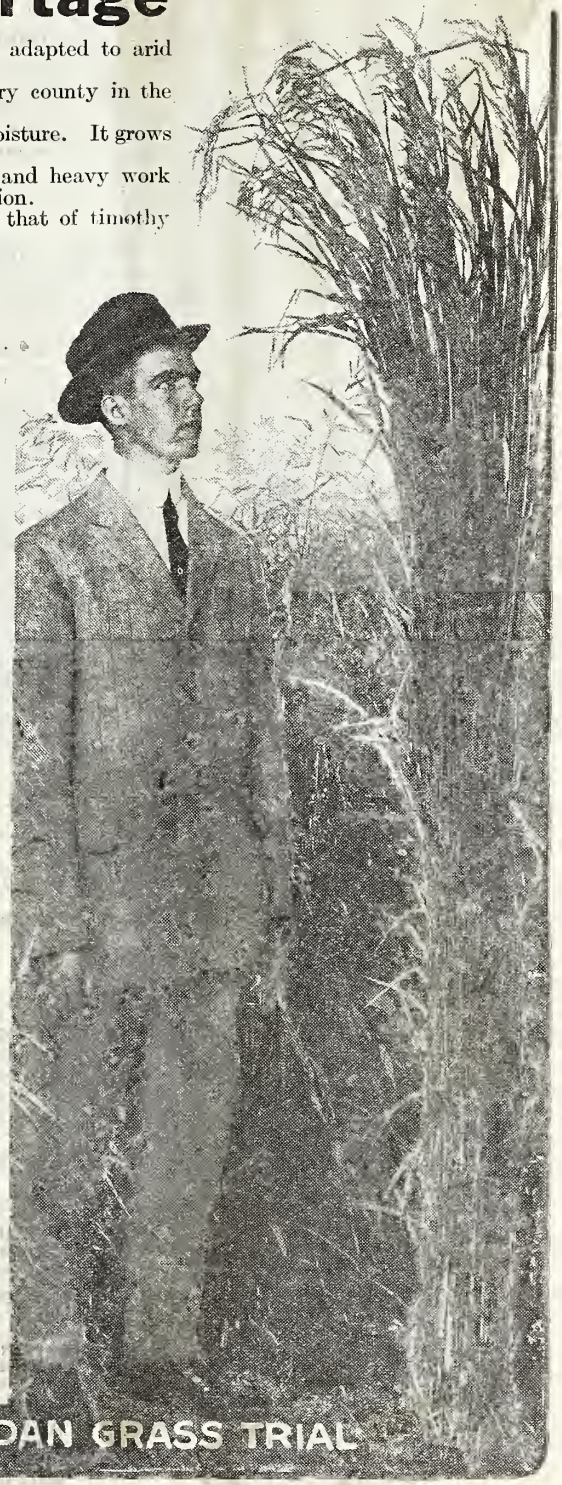
TABLE VI

YIELD OF CONSTITUENTS IN POUNDS PER ACRE FROM GRASS HAYS

Kind of hay	Yield per acre	Dry matter	Protein	Fat	Crude fiber	Nitrogen free extract	Ash
Sudan grass	8,640	6,367.7	439.4	191.0	1,794.6	3,485.2	457.5
Barley hay	4,000	3,400.0	350.2	95.2	996.0	1,792.0	166.6
Rye grass	4,000	3,520.0	369.6	123.2	968.0	1,735.5	323.8
Timothy	4,000	3,316.0	225.5	96.2	1,107.5	1,721.0	165.8

It will be noted that the acre yield of protein in the Sudan grass is about twice as great as that of timothy hay, and at least a fourth more than rye grass or barley hay. In the case of fat and ash the acre yield of Sudan grass is more than twice as great as for either barley or timothy and more than a third greater than rye grass, while its yield of carbohydrates is double that of the other grasses. While the value of Sudan grass hay, per unit of weight, is no greater than that of the other grass hays, the larger yields per acre and the

The above is a page in part from University of California Bulletin.



PHOTOGRAPH OF OUR SUDAN GRASS TRIAL

Mr. Harry Mitchell, the Man Shown in the Picture Above, is SIX Feet Two Inches Tall

Send for Our Big Illustrated [5] Pamphlet on Sudan Grass

PALMETTO ASPARAGUS

VEGETABLE SEEDS

ARTICHOKE

Note—Prices listed are postpaid.

Alcachofa **Artischoke** **Artichaut**

CULTURE—Sow any time except during hottest weather, when all seed beds require special care. Soil should be a free, moist loam and seeds should be planted an inch deep. Plant out when six inches high in rows four feet apart each way. Save offsets from best plants for new supply, as artichokes never come true from seed, some will prove inferior. When planting seedlings, reject those with spiniest leaves.

	Pkt	Oz.	¼lb	1 lb.
Germain **LARGE GREEN GLOBE.** The favorite garden variety	$ 10	$ 60	2 00	$6 00

Plants of large Green Globe Artichoke, see page 83.

ASPARAGUS

Note—Prices listed are postpaid.

Esparrago **Spargel** **Asperge**

CULTURE—Soak seeds twenty-four hours before planting. Sow in February in beds broadcasted or in rows, covering about one inch. The following January transplant to rows three or four feet apart and a foot apart in the row, with at least six inches of soil over the roots. Light sandy soils are preferable.

NOTE: By planting two year old roots, much time and labor will be saved. See prices of roots on page 83.

	Pkt	Oz.	¼lb	1 lb.
ARGENTEUIL. The favorite in the Paris markets, and exceedingly popular wherever grown in the United States. The stalks grow to an enormous size, cook tender, of delicious flavor	$ 05	$ 10	$ 35	$1 00
Germain **PALMETTO.** Standard among the asparagus shippers of California is the Palmetto, and Germain's have gone to a really unwarranted expense to get seed from the most perfect first growth stock. This strain grows to mammoth proportions, and very even in size, which makes it especially popular with shippers. The shoots are a light green, slightly tinted with pink, and are tender to an unusual length. No one will be disappointed with the productiveness and fine edible qualities of the Palmetto Asparagus	05	10	20	60
CONOVER'S COLOSSAL—This type is one of the largest and most extensively used green varieties. The shoots of asparagus are bright green, sometimes tinged with purple at the tips. **Excellent** quality	05	10	30	85

BEANS

Note—Prices on half pound and pound quantities include postage or expressage prepaid. When sent otherwise, deduct 10 cents per pound or fraction thereof. Prices listed for larger quantities, if desired sent by Parcel Post necessary postage should be added. See our Parcel Post Schedule on page 1. If quantities are desired, do not fail to write for special prices.

LIMA BEANS

Frijole **Bohne** **Haricot Nain**

CULTURE—Beans for the home garden should be a continuous summer crop, and sowings may be made from the middle of March to September. Plant two inches deep and two feet apart. Have drills one and one-half to two and one-half feet apart, according to variety; directions will be found on individual packets for the respective sorts. The average amount needed to plant an acre is fifty pounds. One pound will sow one hundred feet of drill. They will thrive in any good soil. Best results will be obtained by inoculating the seed. See page 43.

FORDHOOK BUSH LIMA BEAN

Germain RECOMMENDS

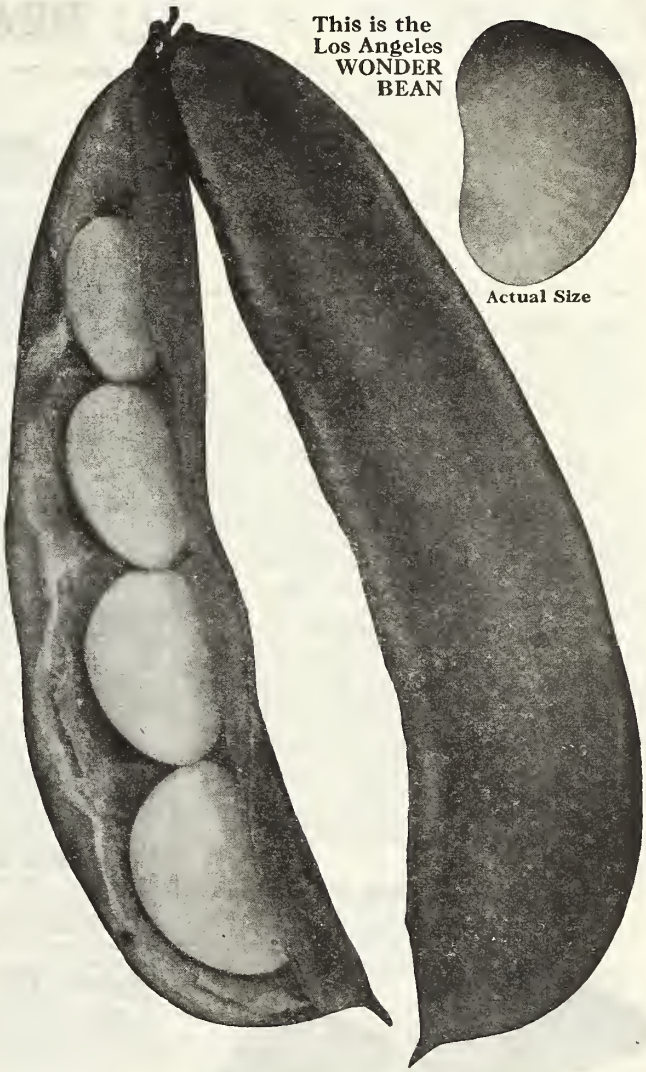
FORDHOOK BUSH LIMA BEANS

The old fashioned name of "butter bean" given to lima beans can be best appreciated when eating this delicious variety fresh from your own garden. There are from three to five beans in each pod, which grows in clusters of from two to five on long spikes, making the picking easy where the beans are eaten green. The bush is a vigorous grower, reaching a height of two feet, erect and strong. Germain's have long recognized the Fordhook as a splendid variety and this year succeeded in getting a stock of seed which must be placed among the specialties, insuring the buyer of getting absolutely the best. Price, packet, 10 cents; one pound, 45 cents; ten pounds, $3.25. Write for prices on 100 lb. lots.

	Pkt	1 lb	10 lb	100 lb
BURPEE'S BUSH LIMA. Splendid dwarf Lima: large and of excellent quality	10	40	2 75	Write for Prices
Germain **BURPEE'S IMPROVED BUSH LIMA.** The earliest maturing of all the large seeded Limas. Pods very large, thick, and contain usually four beans, which are unusually thick, of largest size and excellent quality	10	45	3 25	
FORDHOOK BUSH LIMA. See specialty above.				
HENDERSON'S BUSH LIMA. A dwarf variety of the Sieva or Southern Lima; produces enormous crops	10	40	2 75	
Germain **KING OF THE GARDEN LIMA.** A vigorous grower, bearing profusely; large pods, five to eight inches. Beans large and of rich flavor	10	40	2 75	
LOS ANGELES WONDER BUSH LIMA BEAN. See opp. page.				
MONSTROUS BUSH LIMA. What its name implies. Extra large in size. It should be planted 6 feet by 6 feet in order to give it a chance to develop properly. Good for market or home garden.	15	60	4 50	

CATALOGUE PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

PLANT "Los Angeles Wonder" Lima Beans



This Lima Bean is noted for its large size, unusual quality, its earliness and its large production. The Los Angeles Wonder is a perfect bush type and attains a height of about 18 inches. It requires neither stake nor pole because of its sturdiness and upright growth. The producing ability and spreading foliage of the Los Angeles Wonder assure a heavy yield of five and six inch well-filled pods, containing generally four large, thick beans of extra fine quality. The Los Angeles Wonder surpasses all other varieties in continuous bearing of fresh, tender green beans. This is due to the unusually thick pods and protecting foliage. There is no finer bean for table use than the Los Angeles Wonder. It is tender, crisp, buttery, rich and full flavored.

The time to plant is in the early spring. The Los Angeles Wonder yields the first green Lima Beans of the season, and continues producing until killed by frost.

$2 Buys 5 Pounds

When you can buy such a prolific grower for so little money why plant ordinary varieties? **Per package. 10 cts; ¼ lb. 20 cts.; ½ lb. 30cts; 1 lb. 50 cts.; 5 lbs. $2.00.**

Did You Inoculate?

If you want beans of good, rich quality, if you want a field greater than the average, if you want full pods of more than average size, use FARMOGERM.

FARMOGERM aids the soil in feeding the plants and furnishes the element of nitrogen which the plant needs most, and which is very likely to be lacking in varying degrees in your soil.

FARMOGERM will make your plants stronger, your soil richer for later purposes, your field greater, your quality better. The expense is small and the returns great.

Write for Booklet on Farmogerm, which goes into the subject of inoculation thoroughly.

See page 43 for prices.

Controlling Bean Pests

Beans in California are troubled at various times with insect pests like Aphis, Red Spider, Weevil and Fungous troubles such as mildew and rust.

Aphis can be controlled by a nicotine spray or with tobacco dust; Red Spider and Mildew by dusting with sulphur, and Rust by spraying or dusting with Bordeaux Mixture. See page 3.

The most serious pest is the Bean Weevil, which only becomes apparent after harvesting. The only remedy is to fumigate the beans with Carbon Bisulphide at the rate of two ounces to 100 pounds. A simple method is to put the seed in a tightly closed room or in a small container and place the Carbon Bisulphide in saucers at the top, allowing it to evaporate. Be sure room or container is closed tightly.

BEANS

Note—Prices on half pound and pound quantities include postage or expressage prepaid. When sent otherwise deduct 10 cents per pound or fraction thereof. Prices listed for larger quantities, if desired, sent by Parcel Post, necessary postage should be added. See our Parcel Post Schedule on Page 1.

CULTURE—Beans respond very readily to good soil and cultivation. A light rich, well-drained loam is the most desirable. The use of manure is advisable but should be used sparingly as it might make the plant run too much to vine. There is no plant more sensitive to cold and wet than the bean. We therefore advise not to plant until the ground has become dry and warm. The largest returns will result in planting in drills from 2 to 3 feet apart. Cover the seed one and one-half inches deep and thin the young plants 3 to 6 inches apart in the row. If planted in hills about 2 feet apart each way.

KEEP THEM COMING

For rotation, plant at intervals of from one to two weeks. The plants until time of blossoming should have frequent shallow cultivation, but any mutilation of the roots by cultivation after the plants come into blossom is likely to cause the blossoms to blast and so cut off the crop. Cultivation should always be very shallow and it is useless to expect a crop from a field so poorly prepared as to need deep stirring after planting.

BURPEE'S STRINGLESS GREEN POD

See page 44 for other varieties, such as Bayou, Black Eye, Castor, Mexican Pink, Small Navy, Lady Washington, Soja.

BROAD BEANS

	Pkt	1 lb	10 lb	100 lb
ENGLISH, OR BROAD WINDSOR. The celebrated Germain broad bean of England, growing on a strong stalk two feet high; beans eaten shelled	$ 10	$ 25	1 75	

DWARF OR BUSH

GREEN POD

	Pkt	1 lb	10 lb	100 lb
BURPEE'S STRINGLESS GREEN POD. The Stringless Green Pod is recognized as being one of the best beans offered for market garden or general use. In point of earliness, it ranks among the first, and is excelled by none in bearing ability and in good quality. It is one of the greatest green pod beans to date. The pod is very brittle, long and round and is entirely **without strings.** It is about five inches in length, green in color, very tender, and of the highest and best flavor, remaining for a long while in eatable condition, and bearing continuously for weeks	$ 10	$ 45	2 75	
CANADIAN WONDER. This is a strong growing bush variety, bearing large numbers of flat, handsome pods, long and very tender, and with excellent flavor. They are widely known as the best for winter use, and are valuable both to the market gardener and for the home garden	10	40	2 75	
DWARF HORTICULTURAL OR CRANBERRY. A fine shell variety. Pods medium length, broad and thick, curved with splashes of bright red on a yellowish ground	10	40	2 75	
EARLY MOHAWK. Hardier than other sorts. May be planted earlier and will often furnish beans before any other kind	10	40	2 75	
EXTRA EARLY REFUGEE. Very early, prolific; fine quality; a great favorite for canning	10	40	2 75	
FRENCH MOHAWK. A favorite variety, productive. Fine flavor.	10	40	2 75	
IMPROVED YELLOW SIX WEEKS. A favorite variety; very quick growing, with green, flat pods, which are thick and meaty. The seed when fully ripe is yellow, hence the name. It is a well known market variety, tender and of good flavor; . good market variety, as it is a very heavy cropper	10	40	2 75	

WAX OR YELLOW-PODDED

	Pkt	1 lb	10 lb	100 lb
IMPROVED GOLDEN WAX. This bean is a distinct improvement on the old Golden Wax. It is a stronger grower, more prolific and not subject to disease like the Golden Wax. The pods are flat and straight and are grown in great profusion, and we commend it to the public as a superior bush wax bean—one of the most popular varieties for either market or general garden use	10	50	3 50	
IMPROVED PROLIFIC BLACK WAX. In every respect first-class; pods round, a beautiful bright yellow color, very early and continues long in bearing; handsome and immensely productive	10	50	3 50	
REFUGEE WAX. A handsome, round-podded variety, extremely productive, bearing large, fleshy, wax-like pods of splendid quality	10	50	3 50	
VENTURA WONDER WAX. This bean is of California origin, and a very valuable addition to the wax varieties. It is a stocky variety of bush, bearing large numbers of long flat, yellow podded beans, containing white seed, that have a fine flavor. Either used as a snapped bean or dried for winter use. We recommend this bean either for market or general gardening	10	50	3 50	

WRITE FOR PRICES

POLE, OR RUNNING BEANS

Frijole de Bejuco **Stangenbohne** **Haricot a Rames**

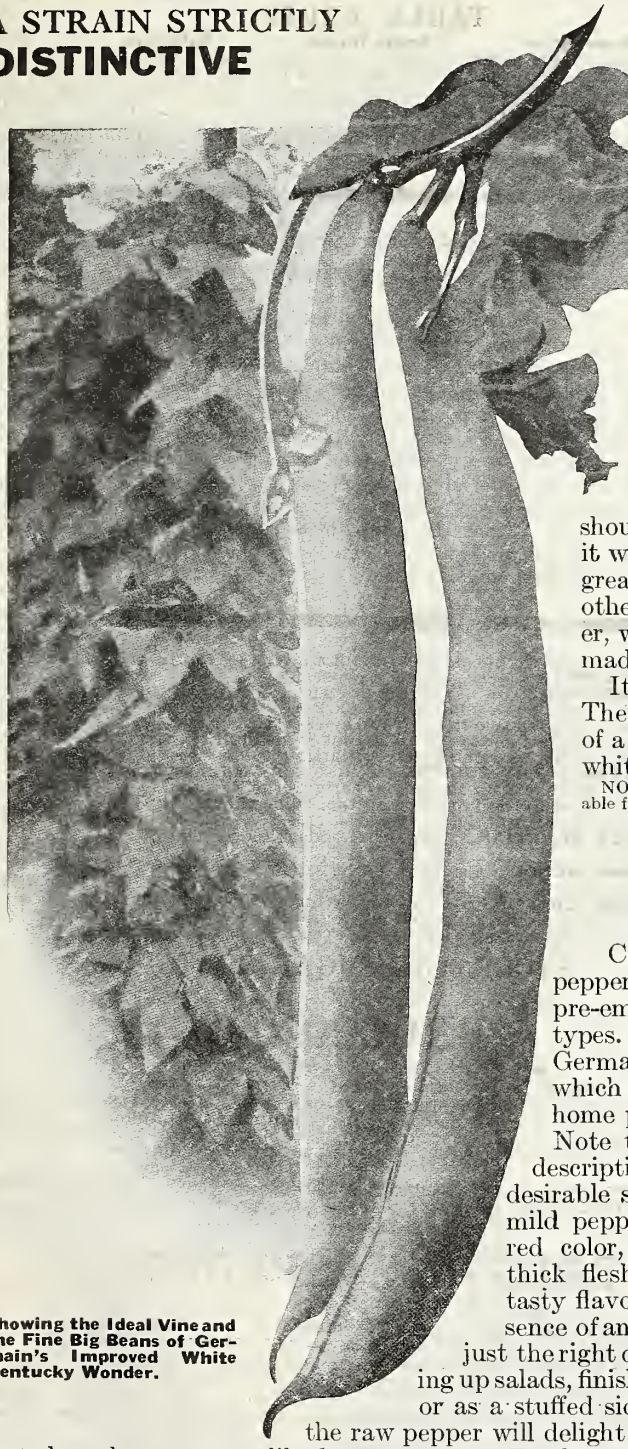
CULTURE—Sow in a rich soil, in well manured hills, three feet apart each way covering to a depth of two inches. In each hill set a pole eight or ten feet long, around which plant five or six beans, afterward thin outleaving four strong plants to each hill.

	Pkt	1 lb.	10 lb
ASPARAGUS, OR YARD LONG. Interesting and popular among those who raise it, this bean is still a novelty to many gardeners. No more tender or finer flavored bean ever went into the pot. Every housewife will appreciate the entire absence of strings in the Asparagus Bean, and it should be grown in every home garden	25	.....	.....
DUTCH CASE KNIFE. A very good pole bean; early; pods broad and long; used as snap and shell	10	40	2 75
KENTUCKY WONDER OR OLD HOMESTEAD. This bean is very early and enormously productive, the long green pods hanging in clusters on the poles. They are entirely stringless and very tender. It has long been known as a favorite, as it meets with a ready sale on the early market and is considered a delicacy in the home garden	10	50	3 50
KENTUCKY WONDER WAX. Similar to above, yellow pods	10	50	3 50
LAZY WIFE. Pods six to eight inches long, entirely stringless, of a rich, buttery flavor as a snap bean; also a good white shell bean for winter. Of the finest flavor	10	40	2 75
LONDON HORTICULTURAL, OR SPECKLED CRANBERRY. Vines vigorous, with large light-colored leaves; pods short, broad, pale green, becoming streaked with red as they mature; good either green or dry	10	40	2 75
SCARLET RUNNER. Ornamental and useful. The vine is graceful; flowers of a brilliant scarlet, and the beans are of excellent quality, shelled or in a dry state	10	40	2 75
GERMAIN'S IMPROVED WHITE KENTUCKY WONDER. (See Specialty page opposite.)			
WHITE CREASEBABK. An extremely early pole bean, very prolific and an excelent shipper	10	40	2 75

WRITE FOR PRICES

Germain's IMPROVED WHITE KENTUCKY WONDER

A STRAIN STRICTLY DISTINCTIVE



Showing the Ideal Vine and the Fine Big Beans of Germain's Improved White Kentucky Wonder.

The most popular and most satisfactory of the Kentucky Wonder Beans. We introduced it a few years ago and since then it has been growing in popularity by leaps and bounds until now it is the most desired of all varieties.

Our seed stock this year was grown by one of the best known bean experts in the state. In his report on our crop he stated that the *"Germain Improved White Kentucky Wonder Bean is by far the best bean I have on the ranch. My comparative tests show it to be the greatest yielder of any of the Kentucky Wonders. It looks as though it was going to produce twice as much per acre that the Brown Kentucky Wonder will."*

Germain's Improved White Kentucky Wonder Bean is a pole bean of a tenderness that places it in the front rank of the bean family. Its productiveness is so exceptional that any one planting a bean garden should not be without it, and as for the market gardener, it will be impossible for him to find a bean that will yield greater returns per acre. It is earlier by two weeks than the other types of Kentucky Wonders and the Market Gardener, who is wide awake, realizes that the big returns are made by harvesting a heavy crop early.

Its tenderness, crispness and color make it very desirable. The pods average from eight to ten inches in length and are of a deep green shade. The seeds when dry are of a snowy whiteness. **Prices: 10c per pkt.; 40c per lb.; $2.25 for 10 pounds.**

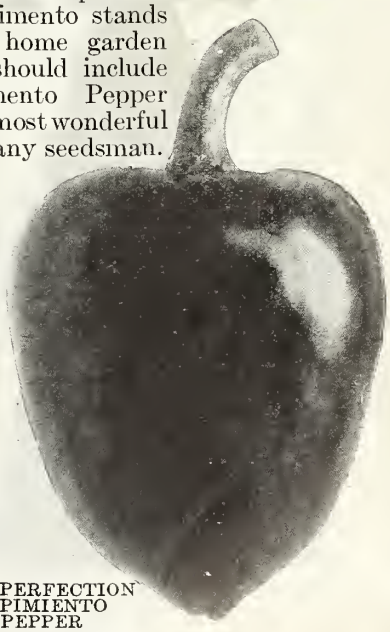
NOTE—If crop is too large for own use, allow beans to ripen, as they are valuable for market.

GERMAIN'S PERFECTION PIMIENTO PEPPER

THE MOST DELICIOUS OF THE PEPPERS

California is famous for her production of all kinds of peppers among which the Pimento stands pre-eminently among the home garden types. All home gardens should include Germain's Perfection Pimento Pepper which is unquestionably the most wonderful home pepper ever offered by any seedsman.

Note the cut opposite this description, which shows the desirable size of this wonderfully mild pepper. It is of brilliant red color, fine texture, but of thick flesh,, with a semi-sweet tasty flavor. The absolute absence of any hot tendency insures just the right delicate touch in making up salads, finishing appetizing steaks, or as a stuffed side dish. A bite into the raw pepper will delight you as this home-perfected product may readily be eaten raw. To those who know the eating qualities of an unequalled pepper, we need say no more, and to those who have never known it, we can only say that you have missed a rare treat, and by all means should see that it has a place in your garden. Culture, same as any other pepper. See page 31. **Price: Packet 10c; Ounce 60c; ¼ lb. $2.00; 1 lb. $6.00.**



PERFECTION PIMIENTO PEPPER

CROSBY'S EGYPTIAN BEET

BEETS

Note.—Prices listed are postpaid.

TABLE BEETS

Remolacha **Rothe Ruebe** **Betterave**

CULTURE—This is one of few vegetables that can be grown the year round. A beet patch completes the garden. Seed planted at intervals of three weeks will keep beets coming in rotation. The seed should be sown in drills 15 inches apart and 1½ inches deep, and covered by hand unless following field culture. (The uses of a rake for this purpose disturbs the seed and often draws the seed out of the ground. The result will be an irregular row.) Thin out then to 9 inches apart in the row. These young beets are excellent used as spinach. Frequent cultivations are essential to produce a successful crop.

Germain RECOMMENDS

CROSBY'S EGYPTIAN BEET

Among all the table beets there is probably no other which has been so often featured by seed houses, where a first class stock of seeds can be obtained. A good purchase by one of our buyers causes us to put the Germain mark of approval on this variety this year by placing it among our specialties. Many experienced growers say "Crosby's Egyptian is the only beet worth planting," and while this may be somewhat of an exaggerated opinion, we will unhesitatingly recommend this lot of seed as being the best that money can buy. Crosby's Egyptian is a medium sized beet, very early and of small top. It grows smooth and the deep crimson flesh is sweet and tender. Price, Packet 5 cents; ounce 15 cents; ¼ pound 40 cents; pound $1.25.

	Pkt	Oz.	¼ lb	1 lb
BASSANO. Early, flat, light color, fine quality	05	15	50	1 50
CROSBY'S EGYPTIAN. See specialty above.				
DETROIT DARK RED. One of the best beets for either market or home garden. Very rich in color, being a dark red. We recommend this as specially desirable to plant for market gardeners on account of its attractive appearance. The root is medium sized, globular or nearly round, very smooth and of dark red color	05	15	40	1 25
Germain **EXTRA EARLY ECLIPSE.** Eclipse is a well known variety of table beets. Nearly as early as the Egyptian. It is nearly round in shape and has a small top, while the flesh is fine grained and tender with bright red color	05	10	35	1 00
EXTRA EARLY EGYPTIAN. Very early, of dark blood color, rather flat shape	05	10	35	1 00
Germain **LONG BLOOD.** A splendid variety of fine flavor and of long, symmetrical shape	05	10	35	1 00
SWISS CHARD, OR SILVER. Cultivated for its leafstalks, which are served up like asparagus, and for its leaves, cooked like spinach. Cut often, as new stalks will be produced	05	10	30	85

STOCK AND SUGAR BEETS

See page 38.

BROCCOLI

Note—Prices listed are postpaid.

Broculi **Spargelkohl** **Brocoli**

CULTURE—Broccoli like the cauliflower is a cultivated variety of the wild cabbage which is grown for the sake of the head, which is similar to cauliflower. Heads are smaller than cauliflower. To secure broccoli at its best we advise growing your own and picking one hour before cooking. Culture the same as cauliflower.

	Pkt	Oz.	¼ lb	1 lb
PURPLE CAPE. Produces fine heads of purplish-brown color	$ 05	$ 35	1 15	$3 50
Germain **WHITE CAPE.** Heads of medium size, compact, of creamy-white color	05	35	1 15	3 50

BRUSSELS SPROUTS

Note—Prices listed are postpaid.

Berza de Bruselas **Rosenkohl** **Chou de Bruxelles**

CULTURE—Sow in September and October and treat same as Cabbage.

	Pkt	Oz.	¼ lb	1 lb
Germain **HALF DWARF PARIS MARKET.** A half-dwarf sort, bearing handsome crops of round, hard sprouts of the finest quality	05	15	50	1 50

CATALOGUE PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Due to the scarcity of all seeds caused by newly created demands elsewhere, we sell out of many varieties and it is necessary to buy on open market at greatly increased prices, so we find it necessary to quote prices in this catalogue subject to change without notice.

BRUSSELS SPROUTS

CELERY

Note—Prices listed are postpaid.

Apio Sellerie Celeri

CULTURE—Sow from February to May in drills one foot apart. Later, usually in June, transplant to rows four feet apart and six inches apart in row. Rows should be furrowed out so plants may be set six inches deep. Later soil may be banked against rows for blanching, even so-called self-blanching varieties needing the cool, moist soil to render the stalks crisp and tender, but this should not be done until a few weeks before harvesting. One ounce of seed will produce 5000 plants.

	Pkt	Oz.	¼ lb	1 lb
BOSTON MARKET. One of the best of the white varieties; early and hardy	05	20	65	2 00
CHINESE GREEN TOP. The best "Green Top" variety grown; largely grown by Chinese gardeners	05	30	1 00	3 00
GIANT PASCAL. Stalks very large, thick, solid, crisp and of a rich, nutty flavor; blanches easily and quickly	05	30	1 00	3 00
GOLDEN SELF-BLANCHING, CALIFORNIA STOCK. Similar to French Stock; seed raised in California from selected plants	05	60	2 00	6 00
GOLDEN SELF-BLANCHING, FRENCH STOCK. See specialty opposite.				
Germain **WHITE PLUME.** We offer a choice strain of this valuable and popular variety. Unsurpassed for fall and early winter use, requiring very little earthing up to blanch	05	35	1 15	3 50

GOLDEN SELF-BLANCHING CELERY SEED (French Stock)

The trial ground test in comparison with samples of seed from thirty growers should prove the selected lot to be as fine seed as can be produced. This is exactly the test we applied to this year's stock of this variety, and even at the present high price of celery seed we are satisfied we are offering the greatest value for the money in this tried and true sort. Celery seed has for many years been a strong item with Germain's for purity and high quality, but with the establishment of our testing grounds we are in a better position than ever to praise this item. It is a thrifty variety, growing 18 to 22 inches in height, very stocky, heavy, perfectly solid and a splendid shipper. It is mild but characteristically flavored, and from every point of analysis is entitled to the mark of approval of this house. Packet 10 cents; ounce $1.50; ¼ pound $5.00; pound $20.00; plants 25c per doz.

CELERIAC

Note—Prices listed are postpaid.

CULTURE—It is grown in nearly the same way as common celery and like this vegetable, requires good rich, moist, mellow, and well-manured soil. It is generally sown in seed beds in February and can be planted up until May. When about 4 to 6 inches high the plants should be removed from seed bed and planted 12 inches in the rows and the rows should be about 18 inches apart. Plants require no further attention than frequent watering and is necessary to have the ground well cultivated and free from weeds. See cut below.

	Pkt	Oz.	¼lb	1 lb
CELERIAC, LARGE, SMOOTH PRAGUE. It is a turnip-rooted celery of a distinctive flavor similar to celery. It makes a wonderful salad when cooked and cut cold	$ 05	$ 30	1 00	$3 00

CHERVIL

Note—Prices listed are postpaid.

Perifollo Kerbel Cerfeuil

CULTURE—The seed may be sown throughout the entire year in open ground where the crop is to be grown, but in very hot weather it is better to sow in a shady position with a northern exposure. The leaves can be cut in from 6 weeks to two months from date of sowing.

The leaves are aromatic and they are used for seasoning and in salads. This vegetable is used a great deal by the English. For further culture same as parsley.

	Pkt	Oz.	¼lb	1 lb
CURLED. Is a vigorous grower, handsome and ornamental. It has a pleasing flavor and is highly recommended for garnishing, also for flavoring soups. See cut below	$ 05	$ 20	$ 65	$2 00

CHICORY

Note—Prices listed are postpaid.

Achicoria Cichorie Chicoree

CULTURE—Sow any time except hottest weather, though early spring is preferable, in rows eighteen inches apart and three or four inches apart in row. A deep-rooting plant requiring little care if soil is moist.

	Pkt	Oz.	¼lb	1 lb
LARGE ROOTED MAGDEBURG. This variety is grown for its roots, which are dried or roasted and ground as a substitute or adulterant for coffee. The leaves can also be used but should be cut when fresh. They make a splendid salad. To secure large roots, soil should be light, rich and deeply worked. Plants should be thinned from 4 to 6 inches apart and the seed sown ½-inch deep, using 1 oz. to every 100 feet of row See cut below	05	40	1 35	4 00
WITLOOF OR FRENCH ENDIVE. Is used as a salad and is most delicious served with French dressing and eaten like lettuce. Seed should be sown in June, July and August in drills 12 to 18 inches apart and the seedlings should be thinned out to stand not closer than 3 inches. In the fall, lift the plant, trim off the leaves and store in sandy soil in a cool place until wanted for forcing. The roots should be planted upright about 1½ to 2 inches apart in a trench 16 to 18 inches deep. This brings the neck of the root within 9 inches of the level of the surface of the trench, which should be filled with light soil. It requires about one month to force the root. The heads are then cut off with a small portion of the neck of the root attached. We recommend this vegetable to those who enjoy a salad of exceptional flavor. It can be easily grown if these directions are carefully followed. See cut below	05	40	1 35	4 00

LARGE SMOOTH PRAGUE CELERIAC

CURLED CHERVIL

MAGDEBURG CHICORY

WITLOOF CHICORY

CABBAGE

Note—Prices listed are postpaid.

Col Repollo **Kopfkohl** **Chou Pomme**

CULTURE—Knowing the first essential of successful cabbage growing to be good seed, we have always obtained our seed from expert seed growers, and therefore we enjoy an enormous volume of business on this variety of vegetable.

To raise cabbage successfully is not difficult, as it is comparatively easily grown. We advise the planting of seed in beds or land of light, rich texture at a depth not to exceed ½-inch; and the soil should be pressed firmly over the seed. The plants should not be allowed to overcrowd one another before they are transplanted, but as soon as large enough to be handled should be lifted out to their permanent place.

For early varieties, such as Winnigstadt, plant in rows 3 feet apart, plants 1 foot apart in the row. The larger headed varieties, 1½ feet apart in the row.

For the permanent field, soil of a firm, stiff, rich nature is preferred.

Immediately after transplanting, the plants should be watered and constant, deep cultivation is very essential. A cool, moist climate seems to be the most suitable of all for the culture of cabbage which generally grows to greater perfection in the coast region, as heat and drought are injurious to them.

Sudden changes of temperature have a tendency to make cabbage go to seed and growers should watch them carefully to see that their field is moist but properly drained. Sudden check in growth is prevented by this care.

It is only logical that a climate that is good for man would be good for insects also. California has a greater variety of insects which live longer and reproduce more generally than any other State in the Union.

On that account we have found it advisable to maintain an insecticide department which devotes itself to garden troubles of all kinds. Write to this department at any time and tell us your troubles. Our experts will gladly advise you to the best of their ability.

The cabbage, for instance, is a vegetable that while not bothered with a great number of insects, nevertheless has two enemies which do considerable damage if not routed.

These are the cabbage worm and the cabbage aphis. The former is velvety green in color and when full grown is about an inch and a quarter in length. They are easy to detect and the parent of this worm is present from morning to night in the shape of the common white butterfly, which seems so harmless when flying around in the garden. The best remedy is dusting or spraying with Corona Dry.

The cabbage aphis, or as otherwise known the "cabbage louse," is a small insect of a greenish black color and similar in appearance to the green aphis found on rose bushes. Nicotine sprays such as Black Leaf 40, or Tobacco Dust, applied thoroughly, will effectively combat the ravages of this pest. See page 3 and pages 109-110.

COPENHAGEN MARKET CABBAGE

POINTED, OR OBLONG VARIETIES

	Pkt	Oz.	¼lb	1 lb
SCOTCH CROSS. A cross between Early Winningstadt and Flat Dutch. Said to produce more to an acre than Winningstadt.	10	80	2 65	8 00
EARLY WINNIGSTADT. See specialty on page opposite.				
EARLY YORK. An old favorite, with solid, pointed heads. Standard English sort.	05	45	1 50	4 50
SELECTED EARLY JERSEY WAKEFIELD. A favorite sort. Heads very compact, solid and conical shape, few waste leaves	05	50	1 65	5 00

FLAT, OR ROUND HEAD VARIETIES

Germain RECOMMENDS

COPENHAGEN MARKET CABBAGE

One of the most popular round-headed cabbages with the market gardeners. It is one of the earliest of its kind ever introduced. Leaves medium light green, nearly round, thick and smooth. The heads are round extremely solid and of exceptionally good quality. We recommend it unreservedly both for the home garden and market garden. Price packet 5c; oz. 60c; ¼ lb. $2.00; lb. $6.50.

	Pkt	Oz.	¼lb	1 lb
ALLHEAD EARLY. Very early cabbage of the large early sort, and cannot be recommended too highly; remarkably uniform.	05	45	1 50	4 50
COPENHAGEN MARKET CABBAGE. See Specialty above.				
DANISH BALLHEAD OR HOLLAND. The hardiest round-headed variety in cultivation. The best for winter keeping	05	60	2 00	6 00
DRUMHEAD SAVOY. Fine quality	05	50	1 65	5 00
HENDERSON'S SUCCESSION. An excellent second-early sort on style of All-Seasons	05	45	1 15	4 50
GLORY OF ENKHEIZEN CABBAGE. A splendid second early variety. Heads are of good size, almost perfectly round, extremely solid and heavy, deliciously tender and of the finest quality. It is a sure header. We highly recommend this variety.	05	60	2 00	6 50
SELECTED EARLY FLAT DUTCH. Very hardy, handsome, very solid, of fine quality, and as one of the very best keepers, it is particularly desirable for distant markets or for late spring use. Compact growing, with long stems and exceedingly hardy in resisting cold and dry weather	05	50	1 65	5 00
Germain **SELECTED LATE FLAT DUTCH.** A low-growing variety; heads large, bluish green, round, sound, broad and flat on top; an excellent fall and winter variety; good keeper	05	45	1 50	4 50
SUREHEAD. One of the best main crop cabbages	05	45	1 50	4 50

CHINESE CABBAGE

CHINESE CABBAGE

(Follow Cultural Directions on Lettuce.)

CHINESE—White and Green—Occidental races have always been slow to absorb anything from the Chinese, but it is surprising that so few people have learned to appreciate the value of the Chinese Cabbage, a type that has been maintained for hundreds of years by that race. It is largely grown for Chinese consumption, and it only remains for Americans to find out its merits to make it popular. It is tender, crisp, blanches itself perfectly, and is equally good raw or cooked. **Pkt. $0.10; oz. .60; ¼ lb. 2.00; lb. 6.00.**

RED CABBAGE

Plants, see page 83.

	Pkt	Oz.	¼lb	1 lb
RED DUTCH OR PICKLING. Fine, solid, dark red heads	05	50	1 65	5 00

Germain's Winnigstadt Cabbage

THE PROVEN STRAIN

A great many years ago, the farmers of California found that Winnigstadt was the best all around cabbage for the climatic conditions with which they had to contend. Since that time, we have worked on a strain of seed with the result, that today we are able to recommend to you Germain's Winnigstadt Cabbage. For years, we have purchased our seed from expert cabbage growers, whose object has been not to grow quantity, but quality, and as their requirements in the way of labor have not been taxed, they are still growing the amount of seed we desire, so that through these excellent European connections, we are still able to offer to our many friends, our celebrated strain of Germain's Winnigstadt cabbage.

THE PROOF

November 26, 1917.

Germain Seed & Plant Co., City.
Gentlemen:

As you are aware, we purchased from you last summer during the months of July and August several hundred pounds of Winnigstadt cabbage seed which we supplied to our growers and which was planted in the fields during October, November and December. We are pleased to inform you that the various crops of cabbage from your seed turned our very nicely and gave entire satisfaction. I have in mind one field from your seed which in my opinion was the best field of Winnigstadt cabbage in California. Yours truly

CALIFORNIA VEGETABLE UNION,
By E. A. Curtis, General Manager.

Last season, out customers who purchased our strain of Germain's Winnigstadt Cabbage, had very phenominal success. It showed its true form, even though it went through a growing period, which was determinal to many other strains and varieties of cabbage. Its many years of constant breeding was proven, and Germain's Winnigstadt Cabbage was by far in the lead, as is fully demonstrated by the above testimonial from the California Vegetable Union, one of the biggest vegetable shipping concerns on the Pacific Coast. They have shipped hundreds of carloads to the Eastern markets, and paid to the growers thousands of dollars. It is a fact beyond doubt, that if you desire to secure the maximum of results, you must buy the best seed. A little higher priced seed will in many cases make thousands of dollars for you. Why not pay a dollar or so more for stock that you can realize upon. In Germain's Winnigstadt cabbage, you have a strain of seed that will produce for you a crop, which will yield the maximum of returns.

We recommend Germain's Winnigstadt Cabbage due to many reasons, the most important of which are as follows:

SURE HEADER. What you want in a cabbage is a variety that will give you the largest percentage of true heads. Germain's Winnigstadt Cabbage is a strain that has been improved upon year after year until we have a type that is a sure header. Buy the hundred percent strain of Winnigstadt Cabbage, and be sure of your your results.

HARDINESS. California climatic conditions are unsettled. One day it is cold and the next day it is hot. One day it is dry, and the next day it is wet, and it takes a strain of cabbage that will withstand these sudden changes. Germain's strain, is a type that withstands wet and cold, is as immune from disease as anyone is able to get it; its rugged growth withstands the attacks of insect pests, and ultimately produces for you a crop.

GOOD SHIPPER. Whether you are growing for the local or Eastern markets, what you want is a cabbage that will keep, so that if the markets not right, you need not dispose of it at a loss. Why not plant a strain of seed that will enable you to place on the market with the local or eastern houses a cabbage that is in fine condition and commands the highest prices. Produce houses all through the East have written us letters commending Germain's Winnigstadt cabbage. It has proved without a doubt, that it is the best keeper, and therefore the best cabbage California can produce.

EARLINESS. It is the earliest of the early. It is the one that is on the market before other strains. The first cabbage from the field is usually the cabbage that commands the highest market prices, and if you desire to grow for an early market, you cannot secure a type of cabbage that will produce a crop earlier and more perfect than Germain's strain of Winnigstadt Cabbage.

IMPORTED.

We have our Winnigstadt Cabbage grown in Europe always but anticipating uncertainty in securing cabbage seed abroad, we have for the past few years experimented carefully in producing cabbage seed under practically the same identical climatic and soil conditions in use abroad, here in the United States.

We have experienced wonderful success and in case we are unable to import seed next year, we will anyhow be able to supply an equal quality of seed.

Price, Packet 5c; Ounce 60c; ¼ lb. $2.00; Pound $6.00.

CARROTS

Note—Prices listed are postpaid.

Zanahoria **Moehre** **Carrotte**

CULTURE—Sow any time in deep, loose soil, preferably sandy loam about one-half inch deep, in rows eighteen inches apart and thin to three inches apart. Water freely at all times. The carrot is one of the most wholesome and nutritious of our garden roots, deserving to be more extensively used for culinary purposes and we urge our readers to give some of the early table sorts a trial. For feeding stock, especially horses and milch cows, the carrot cannot be surpassed, and it should be more largely grown by farmers for this purpose. One ounce of seed will sow about 150 feet of row. Four pounds to the acre.

OXHEART CARROT

Germain RECOMMENDS

OXHEART, OR GUERANDE, CARROTS

The common tendency of carrots to grow woody or pithy is least noticeable in this improved and popular strain. This variety may be left in the ground longer than any other without developing these depreciating qualities. The Oxheart is a short carrot growing about 4½ inches long and about 3½ inches thick at the shoulder, with a slight taper to the stump rooted bottom. For this reason it is especially desirable for heavy soils, which also grow the best carrots. The flesh is a bright orange, smooth grained and sweet, and it is equally fine for table use or stock feeding. We are pleased to include this variety in our specialties this year, and our selection of this season puts it among the stocks which we can guarantee. Price, packet 5 cents; ounce 20 cents; ¼ pound 75 cents; pound $2.25.

	Pkt	Oz.	¼lb	1 lb
EARLY CHANTENAY. This is the best early carrot Germain grown for market gardeners. Six inches long, stump rooted, smooth, deep red, fine grained and sugary, not apt to crack	$ 05	$ 25	$ 80	$2 50
EARLY FRENCH FORCING. The earliest variety, largely grown for forcing; globular-shaped root of orange-red color.	05	30	1 00	3 00
EARLY SCARLET, OR SHORT HORN. One of the most popular varieties for table use; color deep orange	05	20	75	2 25
IMPROVED DANVERS HALF LONG. A first-class Germain carrot for all soils; in form midway between Long Orange and Short Horn. Of a rich, dark orange color, very smooth and handsome; 20 to30 tons per acre is not an unusual crop	05	20	75	2 25
IMPROVED LARGE WHITE BELGIAN. Very productive; for stock-feeding exclusively; grows one-third out of ground. Roots white; green above ground	05	15	50	1 50
IMPROVED YELLOW BELGIAN. Same as White Belgian, excepting in color	05	15	50	1 50
IMPROVED LONG ORANGE. A well-known standard sort; roots long, thickest near the crown, tapering regularly to a point; color deep orange. Suitable for the table and main field crop	05	20	65	2 00

PLANT PLANT PLANT

A little seed and your own hands will produce sufficient for your family.

CAULIFLOWER

Note—Prices listed are postpaid.

Coliflor **Blumenkohl** **Chou-fleur**

CULTURE: Prepare the seed-bed carefully, using only rich and thoroughly pulverized soil. Good results are obtained by keeping the plant in a healthy and rapidly growing condition. Broadcast the seed in the seed-bed prepared, sowing the early varieties in May 15th to July 1st; medium early varieties in May 20th to July 5th; and late varieties any time from June 25th to Aug. 25th inclusive. When the plants are 40 days old, they are ready for the field. Transplant to 15 inches apart in rows 30 to 36 inches apart. Do not leave plants in the hot-bed over 45 days as the stems become hard and poor results follow. Keep the plants vigorous and growing.

Due to different localities requiring a different time of planting of Cauliflower, we advise your writing us for specific planting information, which we will be glad to give. Two or three week's difference in planting means success or failure.

CAULIFLOWER PLANTS. See page 83.

Germain RECOMMENDS

GERMAIN'S EARLY SNOWBALL CAULIFLOWER

After considerable study of the different types of Cauliflower that have been offered both in America and abroad, we have selected a strain which we consider one of the superior types: This strain is known as "Germain's Early Snowball".

It is a snow-white Cauliflower and its leaves have a tendency to over-lap at the top of the flowers. In this way, it protects from injury, exposure to frost, rain or heat. It is very essential that good Cauilflower be so protected on account of shipping, and in this, our strain is perfect.

Our market garden trade is immensly pleased with this strain and our business on it has grown to very large proport ons.

25 cts. pkt. ¼ oz. 1.50 cts. 1 oz. $4.50 ¼ lb. $15.00 1 lb. $45.00

GERMAIN'S EARLY SNOWBALL CAULIFLOWER

SEE DESCRIPTION OF GERMAIN'S SNOWFLAKE CAULIFLOWER Opposite Page

	Pk	¼oz	1 Oz	¼lb	1 lb
GERMAIN'S EARLY SNOWBALL. See specialty above.					
EXTRA EARLY ERFURT. Remarkably sure heading, early variety, dwarf habit; similar, not as early as Snowball.	25	1 50	4 50	15 00	45 00
HALF EARLY PARIS. A dwarf of the medium early variety. The heads are solid; pure white. Stock does not head as uniformly as others we offer	05	55	1 65	5 00	15 00
LARGE ALGIERS. A splendid late variety, eminently adapted for Southern California; heads large, white, solid. One of the best for market gardeners. Our stock is extra fancy	05	55	1 65	5 00	15 00
LENORMAND'S SHORT STEMMED. A compact grower, very hardy, heading late, producing many protecting leaves.	05	55	1 65	5 00	15 00
VEITCH'S AUTUMN GIANT. A large, late sort of robust habit; heads compact, large outer leaves. Succeeds well in southern latitudes	05	55	1 65	5 00	15 00

CAULIFLOWER

GERMAIN'S STRAIN SNOWFLAKE CAULIFLOWER

This famous, unsurpassed variety was named and introduced by us.

Out of the many varieties of cauliflowers introduced and exhibited, we claim that Germain's Snowflake Cauliflower stands out supreme. It has the best appearance, best keeping qualities, it withstands the sudden climatic changes better than any other type and with its perfect leaf protection over the head, is a thoroughly bleached product of pure white, from whence it derives its name "Snowflake". It retains its snowflake appearance longer than any other strain, and those who have once grown it never fail to demand Germain's Snowflake Cauliflower. The heads are of good size and its constant uniformity in the field is so surprising that one would think it impossible to breed up astrain to this perfection.

GERMAIN'S EARLY SNOWFLAKE

This type should be planted from June fifteenth to the first of July. We, however, do not recommend the planting of cauliflower too early because of the possibility of its heading prematurely, and climatic conditions also have considerable to do with the success of the grower. In this early strain we have one that has proved very hardy under early climatic conditions.

Price: Packet 10c; ¼ oz. 80c; 1 oz. $2.40; ¼ lb. $8.00; 1 lb. $24.00

GERMAIN'S MEDIUM SNOWFLAKE

Plant from May twentieth to July fifth. This is the money-maker for the market grower as it becomes ready for the market at the time when prices are best. Its trueness to type has endeared it to the experienced grower and he can confidently depend upon it. The market gardener demands this type and we have already booked many orders in advance.

Price: Packet 10c; ¼ oz. 80c; 1 oz. $2.40; ¼ lb. $8.00; 1 lb. $24.00

GERMAIN'S LATE SNOWFLAKE

Here we have a distinctive type which should be planted June 25th to August 25th. If planted too early it has a tendency to go into foliage and the grower will have additional expense and labor in taking care of his field. Earlier planting will not bring any earlier crop, as this type will not form its head until the proper season. Follow our suggestion as to the type to plant and the proper time to plant. By so doing you will save yourself considerable expense and labor. This is a taller plant than the other type as it grows to a height of three feet or more. It should be planted two feet apart in rows three feet apart.

Price: Packet 10c; ¼ oz. 65c; 1 oz. $2.00; ¼ lb. $6.75; 1 lb. $20.00

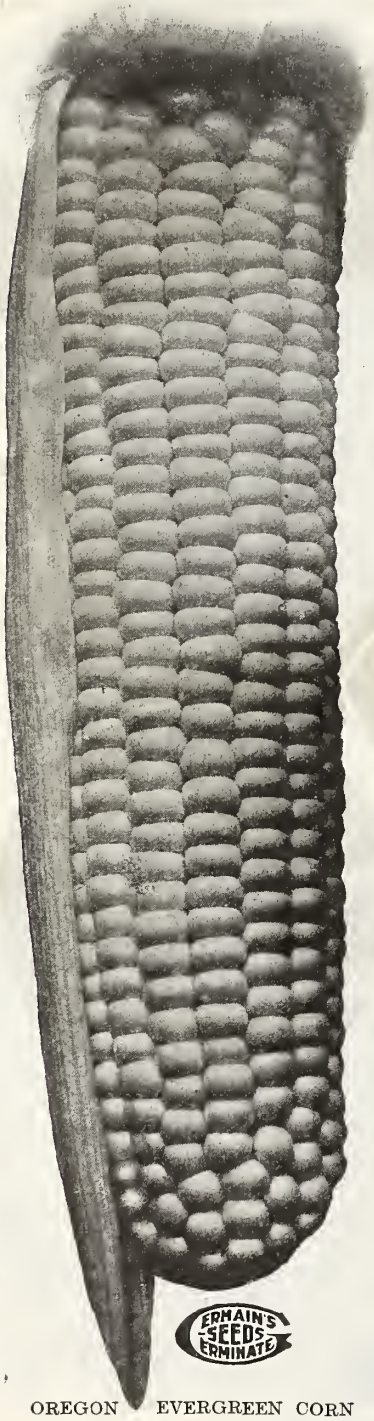
Note how the leaves curl over Germain's Snowflake Cauliflower and protect it from the elements, thus preserving the snow-white color that the best markets demand.

A Word to Home Gardeners About Cauliflower

Cauliflower is one of the finest and most desirable of vegetables. Properly prepared there is no other vegetable more tasty. To the home gardener we especially recommend the planting of this superior vegetable which is probably the earliest to grow. Do not fail to include it in your planting. For cultural directions see page opposite.

CORN

Note—Prices on half pound and pound quantities include postage or expressage prepaid. When sent otherwise, deduct 10 cents per pound or fraction thereof. Prices listed for larger quantities if desired sent by Parcel Post, necessary postage should be added. See our Parcel Post Schedule on page 1. If quantities are desired, do not fail to write for special prices.



OREGON EVERGREEN CORN

SWEET OR SUGAR

Maiz **Mais** **Mais**

CULTURE—Sweet corn should not be planted until in the spring when all danger of frost is past. The soil preferred is one rich and moist. Corn is not a lazy man's crop, as continual cultivation is necessary.

Plant in hills 18 inches apart with rows 3 feet apart. Three or four seeds may be planted in each hill but not more than two allowed to stand. As "suckers" or excess shoots appear they should be removed as they take strength from the mother plant. Whenever soil presents an appearance of drying, irrigate. To prevent the Corn Ear Worm we recommend Corona Dry.

Read the following letter:

WORMY CORN PREVENTED
By Use of "Corona Dry"

Germain Seed & Plant Co., *Orange, California, Oct. 27, 1915*
Los Angeles,
Gentlemen:

I received from you in May a sample package of "Corona Dry" and blower for applying same for the eradication of the corn worm.

I gave this a thorough test personally and will say wherever applied as per directions, found no trace of corn worm, while on ears not treated with "Corona Dry" I found a plentiful supply of the corn worm pest.

Very truly yours,
H. W. WATERMAN, Orange, California

Pamphlet Free

Germain RECOMMENDS

OREGON EVERGREEN CORN

For another year we have secured the en ire crop of Oregon Evergreen Corn from one of the most prominent seed farms, and again offer it as a specialty with the Germain recommendation. We could doubtless sell a great deal more of this variety if we would buy the seed in the open market and sell at a lower price, but we have found that Germain customers appreciate the best, and are willing to pay the slight difference in price for a strictly high grade strain. You must have it on your table to appreciate its juicy sweetness, richness and tenderness. It grows to a medium height, produces bountifully, and, as its name implies, can be rotated from the earliest to the latest. Owing to the tight and thin husk, Oregon Evergreen is almost entirely free from worms. Packet 10 cents; pound 40 cents; 10 pounds $2.50.

	Pkt	1 lb	10 lb	100 lbs.
ADAMS EXTRA-EARLY. One of the earliest varieties; small cob and quite dwarf in growth	$ 10	$ 30	$1 25	WRITE FOR PRICES
BLACK MEXICAN. The sweetest, richest and tenderest of all sweet corn. Turns black only when too old for table use	10	55	4 25	
Germain **COUNTRY GENTLEMAN.** The best for private use. Small white cob densely covered with splendid white grains of delicious flavor. Ears average eight to nine inches. Stalks six feet high, three or four ears to each	10	55	4 25	
EARLY MAMMOTH. Produces the largest ears of any variety of early sweet corn	10	40	2 50	
EARLY MINNESOTA SWEET. One of the earliest, with ears of suitable size for market purposes	10	40	2 50	
GOLDEN BANTAM. See specialty page opposite.				
LATE MAMMOTH. Produces larger ears than any other sweet corn, yet is rich and sweet. Productive and popular; a little later than Evergreen	10	50	3 75	
OREGON EVERGREEN. See specialty above.				
Germain **STOWELL'S EVERGREEN.** The standard sort for main crops everywhere. Ears large, deep-grained, exceptionally tender and sugary; remains tender and eatable longer than any other variety. A general favorite with canners and market gardeners for late use	10	50	3 75	

CORN—FIELD Page 39

CORN SALAD

Note—Prices listed are postpaid.

Canonigos **Feldsalat** **Mache**

CULTURE—This should be planted in early spring or late summer. It is a hardy plant having no enemies and only requires 60 to 65 days to mature; it however, will not succeed in hot weather but must have cool growing weather. One ounce of seed will sow a row 30 feet long. The small leaves are served like lettuce or for garnishing dishes in the same manner as parsley or cress.

	Pkt	oz	¼lb	1lb
Germain **Fetticus, or Lamb's Lettuce**	05	20	75	2 25

CHIVES

Note—Prices listed are postpaid.

Cebelleto **Schnittlauch** **Ciboulette**

CULTURE—The same methods of growing are used as for green onions. However, when the plant is about 2 inches high it should be transplanted to 3 inches apart in rows which are 12 inches apart. Chives are grown for the young leaves which are produced freely from early in the spring throughout the summer. It is a perennial of continuous growth and as the leaves are cut away, new growth comes on. The flavor is mild, resembling that of an onion and is used in soups and various other dishes if onion flavor is desired. For plants, see page 83

	Pkt.	¼ oz.	Oz.
	$ 05	$ 65	$2 00

The Sweetest of All Corn

GOLDEN BANTAM CORN

We are devoting this entire page to this delicious vegetable, as we feel that in order for it to become better known it will be necessary to place it squarely before you. It is the sweetest and most delicious corn yet introduced. The people of the East and Middle West are very enthusiastic about it. No garden is complete there without it. It is not a new variety as it was introduced more than fifteen years ago and it has been planted in a small way by many of our customers. This wonderful corn does not have the heavy sale that it honestly merits and we want every home gardener to have some in his garden this year. Your garden will be the envy of the neighborhood if you plant it.

Golden Bantam is a dwarf, medium early variety. While the individual plant and ear are small, it can be planted so much closer than the larger eared sorts that the net product from a given area is about the same as from ordinary varieties. It is a medium early type.

Its sweetness and reliability place it in the front rank as the home garden corn. It is particularly adapted to the small home garden on account of its small size and to the more pretentious garden because of its excessive cropping ability on a stated area.

It can be planted in the hills three feet apart each way, or in rows three feet apart and the plants standing singly at nine inch intervals.

Golden Bantam Corn is something we want you to plant, because of its superb quality. It will satisfy the most critical demand for every requisite of a high class corn. **Price, Packet 10c; Pound 55c; 10 pounds $4.25.**

Germain Seed and Plant Co.

You remember the Golden Bantam Sweet Corn of which I spoke to you, I want to say that I just had a fine serving of Golden Bantam Sweet Corn here at Washington Hotel, Seattle, and I don't believe that there is a finer corn to be had. I saw many fields of this corn, and it is so thoroughly dependable, uniform and prolific that we must catalog it. It is the finest sweet corn I ever tasted.

H. R. MITCHELL,
Chief Agriculturist Germain Seed & Plant Co.

"Golden Bantam Sweet Corn cannot be excelled. It is the finest I have ever had.

C. R. STUART, City."

Gentlemen:

In the East we use Golden Bantam Sweet Corn altogether. It is one of the finest corns in the United States. Why don't you people recommend a corn of this quality in flour calalogue rather than give it mere mention. People don't seem to know about it. By all means give it a lot of publicity and you will never regret it as the seed will sell itself.

A. G. BALDWIN,
Covina, Cal.

"Your Golden Bantam Sweet Corn turned out fine. It is certainly one of the best sweet corns on the market.

LE ROY TUTTLE,
Covina, Cal."

It is perhaps not generally known that sweet corn is much more tender and retains its flavor better when put into cold water and gradually brought to the boiling point.

DAVIS PERFECT CUCUMBER

CUCUMBERS

Note—Prices listed are postpaid.

Pepino **Gurke** **Concombre**

CULTURE—Cucumbers should not be planted until all danger of frost is over and the ground is warm, because like all vine crops the seed is liable to rot unless proper conditions prevail.

Cucumbers should be grown in every garden, for slicing for on the table and small fruits for pickling. In most sections two plantings can be made. First, as early as the weather permits, second, the latter part of July or first of August.

The early planting will produce cucumbers for table use and the late planting will give the best supply of young fruits for pickling purposes.

Sow 6 to 10 seed in hills 4 to 6 feet apart. After all danger of pests are removed and you are sure of your plants, thin, leaving the three strongest. Cucumbers enjoy a light, sandy, rich soil. They should be planted one inch deep. One ounce will plant 50 hills; 2 pounds, one acre.

Germain RECOMMENDS

DAVIS PERFECT CUCUMBER

A grand new variety. Everyone who saw the crop last year says they never saw anything to equal it. Dark, glossy green, slim and symmetrical, with an average length of ten to twelve inches. They hold color till nearly ripe, when they turn white without a yellow streak on them. Quality fine, as seeds are very soft when fit for table use. Very tender, brittle and of exceptional flavor. Early as earliest strain of White Spine and outyields all others. Price packet 5 cents; ounce 20 cents; ¼ pound 60 cents; pound $1.75.

	Pkt	Oz.	¼ lb	1 lb
BOSTON PICKLING, OR GREEN PROLIFIC. One of the best pickling varieties; dark green; also excellent for slicing	05	15	40	1 25
CUMBERLAND. The vines are hardy, of strong, vigorous growth, and fruit freely. The young cucumbers are of even size and regular form, thickly set with small spines, and are very attractive for making gherkin pickles	05	15	40	1 25
EARLY WHITE SPINE. One of the best for table use. Vines vigorous, fruiting early and abundantly; fruit uniformly straight and handsome, dark green, with a few white spines; flesh tender and of excellent flavor	05	15	40	1 25
GARDEN LEMON. Gets its name from its shape. Very early and exceedingly popular in the Los Angeles market. A fine shipper. Every home garden should include this variety	05	25	85	2 50
JAPANESE CLIMBING. While all cucumbers are running vines this variety is much more so. It also quickly climbs on poles or trellises. It is entirely distinct. Quality is splendid. Well adapted for pickling as well as for slicing for salads	05	15	55	1 75
Germain **KLONDIKE.** A splendid variety of the White Spine family; very early	05	15	50	1 50
LONG GREEN. Long and crisp; well-known and popular	05	15	50	1 50
NICHOL'S MEDIUM GREEN. One of the best general-purpose cucumbers, the young fruit being very symmetrical in shape, deep in color, very crisp; for slicing there is none better	05	15	40	1 25
WEST INDIA GHERKIN. Oval-shaped; prickly; for pickling only	05	25	80	2 50

ENGLISH FORCING, OR FRAME VARIETIES

Superior in every way to the American varieties. Single specimens average twenty-four inches in length. Fruit is crisp and tender, with very few seeds, which makes the price high. They are grown in Europe in the greenhouse, but can be successfully raised out-of-doors in Southern California.

	Pkt	Oz.	¼ lb	1 lb
Germain **IMPROVED TELEGRAPH.** Unquestionably one of the best winter cucumbers; the best for forcing	25			
LOCKIE'S PERFECTION. A remarkably productive variety, bearing fruits fifteen inches in length, perfect models in shape, and of high quality	25			

KLONDIKE CUCUMBER

COLLARDS

Note—Prices listed are postpaid.

CULTURE—A plant similar to cabbage. It does not, however, produce a head, the central leaves often forming a loose rosette.

They are tender and are used as a pot herb like kale. They are also desirable as greens for poultry or rabbits. The same culture is applied as to cabbage, except spacing; plant 3 feet apart in rows 3 feet apart when in field.

	Pkt	Oz.	¼ lb	1 lb
TRUE GEORGIA. A strong growing variety with light green leaves	$ 05	$ 20	$ 65	$2 00

CRESS, OR PEPPER GRASS

Note—Prices listed are postpaid.

Mastuerzo, Berro **Kresse** **Cresson**

CULTURE—There are many kinds of cress, all characterized by a more or less pungent taste. They are used in salads and for garnishing dishes.

Water cress is grown in almost any ditch, shallow stream, or moist earth and also under benches in greenhouses. It is a perennial and is propagated by scattering either seeds or freshly cut stems where the plants are wanted to grow.

Pepper grass or cress should be sown thickly in drills every few days if a succession is wanted. One ounce will sow 200 feet of row.

FINE CURLED (PEPPER GRASS). Grown very quickly from seeds sown thinly in drills. Leaves are finely curled and very ornamental but as the plant runs quickly to seed, frequent plantings should be made. The flavor resembles that of mustard.

	Pkt	Oz.	¼ lb	1 lb
WATER CRESS. A heavy foliaged plant, adapted to water culture. It has a slightly pungent taste and finds ready sale on all markets	$ 05 05	$ 15 35	$ 50 1 00	$1 50

WHITE CURLED ENDIVE

DANDELION

Note—Prices listed are postpaid.

Amargon **Kuhblume** **Pissenlit**

CULTURE—It is used for greens and is much prized by epicures. Sow seed in the spring in rows 1 foot apart and thin plants to stand 1 ft. apart in the row. Sandy loam soil is best suited.

	Pkt	Oz.
IMPROVED. An early, large, broad-leaved variety	05	$1 00

ENDIVE

Escarola o Endivia **Endivie** **Chicoree**

Note—Prices listed are postpaid.

CULTURE—The same as for lettuce.

This plant is highly esteemed by the French people and is their popular salad plant. Those Americans who have used it are unanimous in their praise. There is not sufficient of it planted.

To produce it properly it should be blanched and this can be easily accomplished by drawing the leaves together in a head and tying them together in a head a month before using for the table. One ounce of seed to 100 feet of row.

	Pkt	Oz.	¼ lb	1 lb
BROAD-LEAVED BATAVIAN. Leaves are broad, thick, green and more or less twisted with white midribs. It forms large hearts which when blanched, makes one of the best winter salads	05	$ 20	$ 65	$2 00
WHITE CURLED. A beautiful variety. The leaves are finely curled or massed and need no tying up to blanch as the coloring is naturally a pale golden yellow. This not only makes it very attractive but easy to grow, as plants can be gathered at any time.	05	15	55	1 75

EGG PLANT

Note—Prices listed are postpaid.

Berengena **Eierpflanze** **Aubergine**

CULTURE—The plants should be started under glass if wanted early. If later results are desired, seed should be planted in cold frames or in boxes where special care can be given.

Egg plant seed is very delicate and will not grow unless special care is given it. It is easily affected by cold weather. Seed should be barely covered and particular attention should be given to have well-pulverized soil of rich composition. Moisture is an important factor and care should be taken to have the soil in beds or boxes moist, as any check to growth is exceedingly difficult to overcome and invites failure.

Plants should not be set out permanently until all danger of frost is over, using plants 6 to 8 inches tall of vigorous growth for setting in the field.

Space plants 3 feet apart each way and cultivate thoroughly throughout the season. Plants, see page 83.

NEW YORK IMPROVED. None of this delicious vegetable has ever been brought to such a state of perfection as GERMAIN's Strain of New York. An early variety, large, oval-shaped and the deep purple kind that tastes surprisingly like oysters when fried. It has an indescribably delicate and alluring flavor when stewed. This variety is a great producer, 50 to 60 pounds having been grown from one plant. It has been perfected beyond any tendency to pithiness or dryness.

	Pkt	Oz.	¼ lb	1 lb
NEW YORK IMPROVED	10	$ 75	$2 50	$7 50
BLACK BEAUTY. A handsome, extra early, large variety	10	75	2 50	7 50
BLACK PEKIN. An early variety, fruit round, purplish black and fine grained	10	75	2 50	7 50
EARLY LONG PURPLE. An early, hardier variety, with club-shaped, dark purple fruit six to eight inches long, a shape preferred by some for slicing; flesh firm	05	40	1 35	4 00

THE REASON WHY

We recommend our strain of New York improved egg plant. This is a photograph taken in our trial grounds. This egg plant was grown entirely under market garden conditions, and the actual crop produced was such as to warrant us in making even more emphatic our claims for the excellence of this seed. Distinctly understand that these field tests were not made with a few attended plants. This picture shows the fine big Egg Plant produced by Germain's strain of this variety of seed.

NEW YORK IMPROVED

HERBS IN COOKING

Every good cook uses herbs in the culinary art, but comparatively few housewives are acquainted with the delicious and appetizing flavors secured by the addition to many dishes of one or more of the old fashioned herbs. Easily grown in the house yard and preserved for use simply by drying and placing in tight jars, no order for garden seeds should fail to include them.

LONDON FLAG LEEK

THOUSAND HEADED KALE

GARLIC

Ajo **Knoblauch** **Ail**

CULTURE—Garlic is a perennial plant with a bulbous root and belongs to the onion family. It has flat leaves and the bulb is composed of several parts or bulbels similar to those of a multiplier onion set. Garlic has a strong, penetrating odor and flavor and is highly esteemed for flavoring soups, stews, etc. We cannot offer seeds but can supply the bulbs or sets.

Prepare the ground as for onions, separate the sets and plant them in drills eight inches apart and four to six inches apart in the drill, covering two inches deep. Cultivate like onion sets. When the leaves turn yellow, pull bulbs and dry in the shade.

GARLIC SETS. Per pound 30 cents postpaid. Write for price when quantities are wanted.

HERBS

☛ **Note**—Prices listed are postpaid.

POT, SWEET AND MEDICINAL

5 cents per packet; 50 cents per dozen packets.

A well assorted selection of the various kinds of herbs should have a place in every garden. Their value in seasoning and flavoring is well known and appreciated. Care should be taken to harvest on a dry day just before they fully blossom.

Plants, see page 83.

ANGELICA GARDEN (Archangelica officinalis).
ANISE (Pimpinella anisum).
BALM (Melissa officinalis).
BASIL SWEET (Ocymun basilicum).
BORAGE (Borage officinalis).
CARAWAY (Carum carui).
CATNIP (Nepeta Cataria).
CORIANDER (Coriandrum sativum).
CUMIN (Cuminum cyminum).
DILL (Anethum graveolens).
FENNEL, SWEET (Foeniculum vulgare).
HOREHOUND (Marrubium vulgare).
HYSSOP (Hyssopus officinalis).
LAVENDER (Lavendula vera).
MARJORAM, SWEET (Origanum Majorana).
ROSEMARY (Rosmarinus officinalis).
RUE (Ruta graveolens).
SAFFRON (Carthamus tinctorius).
SAGE (Salvia officinalis).
SAVORY, SUMMER (Satureja hortensis).
SAVORY, WINTER (Satureja montana).
SORREL (See page 28).
TANSY (Tanacetum vulgare).
THYME, BROAD-LEAVED (Thymus vulgaris).
WORMWOOD (Artemista absinthium).

KALE, OR BORECOLE

☛ **Note**—Prices listed are postpaid.

Breton **Blaetterkohl** **Chou Vert**

CULTURE—This is a very popular boiling green and in Southern California can be grown the year around. It resembles cabbage in flavor, is a hardy plant and can be easily grown from seed. Plants are usually cut off when the leaves are 6 inches or more in length, but with the fine curled varieties the leaves can be gathered for use when of good size.

If the tall Scotch variety is planted, the lower leaves should be carefully pulled off so that the plants can grow on and furnish a continuous supply.

This is also true of Jersey or Tree Kale. One ounce of seed will produce 4000 plants. Seed should be sown thinly in drill and reset 12 inches apart in rows 3 feet apart.

Plants, see page 83.

	Pkt	Oz.	¼ lb	1 lb
Germain **DWARF CURLED, OR GERMAN GREENS.** Very hardy, excellent for spring use	05	$ 25	$ 80	$2 50
Germain **GREEN CURLED SCOTCH.** The kind most commonly used; grows to a height of eighteen inches; spreads to three feet in diameter; leaves bright green and curled	05	25	75	2 25
Germain **JERSEY, OR TREE KALE.** Of vigorous growth, grown for chickens and stock only	05	10	40	1 25
THOUSAND HEADED KALE. An excellent food for poultry, an immense yielder. Crops are known to have gone as high as 60 tons of green feed per acre. Anyone having poultry should plant it	05	10	40	1 25

Seed should be planted in drills 3 feet apart and the plants transplanted when from 6 to 8 inches high. The plants should be set three feet apart each way.

They grow about 4 feet high with a wide spread of leaves and a single plant often weighs 30 to 40 pounds.

KOHLRABI

☛ **Note**—Prices listed are postpaid.

Colinabo **Kohlrabi** **Chou-rave**

CULTURE—This vegetable is across between a cabbage and a turnip. The edible portion is the large bulb which forms on the stem above the soil. We advise successive sowing in order to obtain tender bulbs, which have a mild, delicate, cabbage-like flavor. It is a hardy plant and seed may be sown practically all the year around. Plant it like turnip and thin to six inches apart in row. One ounce seed will produce 2000 plants.

	Pkt	Oz.	¼ lb	1 lb
EARLY PURPLE VIENNA. Very hardy; bluish purple	05	$ 30	$1 00	$3 00
Germain **EARLY WHITE VIENNA.** Flesh white and tender; very productive	05	30	1 00	3 00

LEEK

☛ **Note**—Prices listed are postpaid.

Puerro **Lauch** **Poireau**

CULTURE—Leek is a very hardy plant with a sweet onion-like flavor. It resembles the young onion growth in the spring as it does not bulb.

The neck or stems are blanched by drawing the earth up about them as the plant grows in size or they can be transplanted to trenches and the trench gradually filled as the plant grows. They should be planted in drills or rows 16 to 20 inches apart and the plants 10 to 12 inches apart.

Plant seed in seed bed, broadcast or in drills, covered to depth of one-half inch, and when they are about as thick as a good sized goose quill they should be transplanted.

Plants, see page 83.

	Pkt	Oz.	¼ lb	1 lb
Germain **LONDON FLAG.** A large and strong plant; hardy	05	30	$1 00	$3 00

LETTUCE

Note—Prices listed are postpaid.

Lechuga **Salat** **Laitue**

CULTURE—A world wide grown vegetable because it can be quickly and easily grown, is extremely palatable and very nutritous. Every garden deserves a lettuce plot. The quickest growing types are the loose leaf varieties and we suggest for the home garden a plot of loose leaf and a bed of the heading type. The loose leaf varieties will have matured and be used up by the time the heading types are matured.

The loose leaf Lettuce does not form heads but where the plants are grown a distance apart they make a large rounded cluster of leaves. Leaves are heavily crumpled and attractive in appearance, crisp and tender. We advise the planting of two ounces of seed for a 150 foot row and if the lettuce is too thick, thin after it has attained a size which can be pulled and used for salad or it can be thinned out when young and transplanted to another section of the garden. Lettuce needs considerable moisture, applied often but not too heavily and plenty of cultivation to obtain best results.

ICEBERG LETTUCE

HEAD LETTUCE, is so called because of its extremely solid or compact formation. Such types as Los Angeles Market Wonderful, New York, Big Boston and Iceberg, may be depended upon to satisfactorily mature a firm cabbage-like head.

Heading varieties should be sown the same as loose leaf except that it should by all means be thinned out when the fourth leaf appears leaving plants in the row 10 inches apart.

A rich pliable medium loam soil is best.

Germain RECOMMENDS

ICEBERG LETTUCE

A splendid Head Lettuce. For summer planting—compact, tender, crisp, creamy white heads.

Grows a solid head in midsummer and is highly praised by all users. Grow this large, crisp, tender and sweet summer heading lettuce when other varieties will not head. Germains recognized the superb qualities of this Iceburg Lettuce long ago and with our recommendation it is grown more extensively than any other lettuce during the summer. Packet 5 cents; ounce 20 cents; ¼ pound 60 cents; 1 pound $1.75.

BLACK SEEDED BUTTER LETTUCE

CABBAGE OR HEADING VARIETIES

	Pkt.	Oz.	¼ lb	1 lb
BIG BOSTON. A very deserving smooth-leaved head lettuce, which has not received the attention of California growers as it should. Extremely popular in eastern markets and very successfully grown out here. There was a hundred acre field of this variety grown on our Ranch this year; the heads are absolutely uniform and the quality of the lettuce could not be surpassed	05	15	50	1 50
CALIFORNIA CREAM BUTTER. A fine summer variety; grows slowly and keeps well	05	10	40	1 25
DENVER MARKET. A Cabbage heading variety, medium large; slow to run to seed	05	10	40	1 25
ICEBERG. See Specialty above.				
IMPROVED HANSEN. Very large, sweet, tender and crisp	05	15	50	1 50
LOS ANGELES MARKET. See Specialty on page 22.				
Germain **NEW YORK.** The pride of the Los Angeles market. By far the most profitable lettuce grown. It is shipped from here in carloads, as far as Colorado. Exclusively used by the best Los Angeles hotels. Hardy, uniform size, wavy leaved and blanches beautifully. Crisp, tender, of just the right flavor, it never fails to please. We have gone to great expense to secure the best and we list it with our strongest recommendation	05	20	70	2 00
Germain **PARIS WHITE COS.** An excellent variety; large, crisp, tender and of fine flavor; resists warm weather and is the best Cos lettuce. Known also as Romaine Cos	05	15	50	1 50
Germain **WONDERFUL.** A splendid variety for market or home use and the best sort adapted for fall sowing. A strong grower, making fine heads	05	20	70	2 00

WE PREDICT

A great future for Big Boston lettuce in Southern California because of enormous eastern markets that exist and demand Big Boston lettuce exclusively. This fact has not been broadly known to California growers, and they have confined themselves largely to Los Angeles Market lettuce. Many new conditions creating heavy demands for foodstuffs has forced the eastern dealers to look to the West for additional quantities of garden truck, and among this demand is included Big Boston lettuce.

Last year there were several big fields of this variety planted, and the growers enjoyed splendid success, so as this becomes known more ranchers will be willing to grow it. The superior lettuce growing conditions, in California, are already recognized by the big markets, and once California grown Big Boston lettuce gets a foothold in the eastern market, we predict it will be grown here in enormous quantities. It is the coming lettuce. See description above.

BIG BOSTON LETTUCE

CURLED OR LOOSE LEAVED VARIETIES

	Pkt.	Oz.	¼ lb	1 lb
Germain **BLACK-SEEDED SIMPSON.** One of the best; leaves are large, thin and exceedingly tender	05	10	40	1 25
EARLY CURLED SIMPSON. A popular early sort; forms large, loose heads	05	10	40	1 25
Germain **PRIZEHEAD.** Large, loose-headed sort; leaves tinged with brown; very heavy	05	10	40	1 25

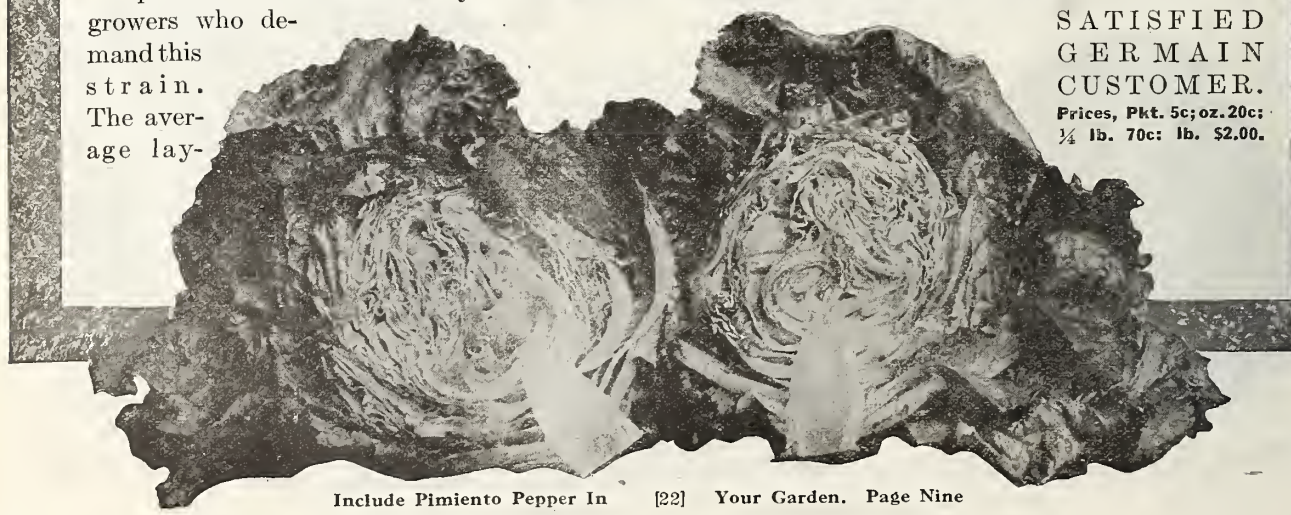
Prices Subject to Change Without Notice

Germain's Los Angeles Market Lettuce

This picture is worthy of close study—note the large size and solid formation of each and every head. When cut open the compact growth resembles cabbage, and this uniform solidness gives each head satisfactory weight. Carload growers tell us that they have shipped cars of this lettuce averaging one pound to the head. The heads in this picture are only a fair reproduction of what you may expect from our seed.

Do you realize that California supplies the entire West with Lettuce?—and by the west we mean the territory this side of Chicago. California ships approximately 3000 car loads of this vegetable out of the state during the cold months when other sections cannot grow their own. This is why the lettuce growers of California have become wealthy producing this vegetable for market. Germain's Los Angeles Market Lettuce has always been the preference. We can name you a hundred growers who demand this strain. The average layman does not realize the number of carloads of vegetables that are shipped all over the United States from our own California. We believe in recommending to our customers a list of tested and tried vegetables, and do not believe it good business to leave it to our customers to experiment, by offering them many novelties of unknown merit. Our policy for the past 47 years has been one of recommending only reliable varieties—and everything we list is of that character. We want YOU to be a SATISFIED GERMAIN CUSTOMER.

Prices, Pkt. 5c; oz. 20c; ¼ lb. 70c; lb. $2.00.



MUSKMELONS

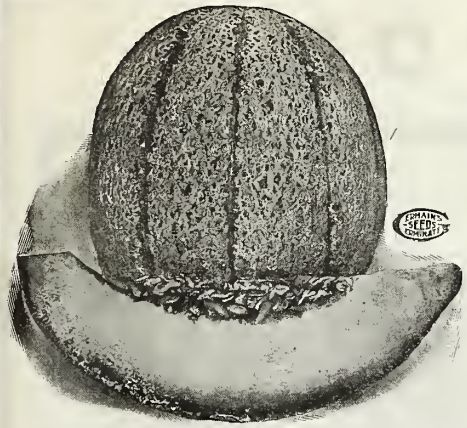
Note—Prices listed are postpaid.

Melon Almizcleno **Cantalupen** **Muscade**

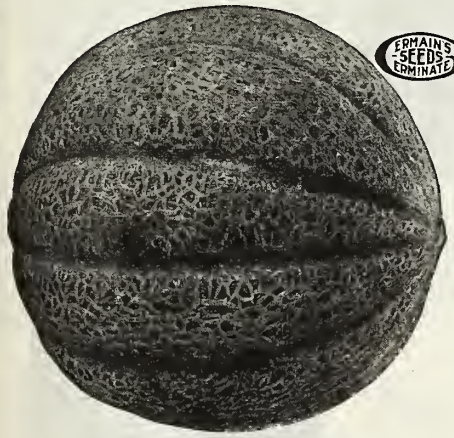
CULTURE.—Muskmelons must not under ordinary gardening conditions be planted until all danger of frost is past. This is usually March, and planting may continue until July 15th. Warm ground is essential to the germination of the seed, for if planted too early in the Spring it will rot. It is highly important that your soil should be in proper planting condition. First, it must be thoroughly soaked or irrigated. Second, as quickly as the moisture has thoroughly penetrated and the soil is in a tillable or workable condition, spade or plow the ground and see that it is thoroughly pulverized. Third, prepare furrows 6 to 8 inches in depth and 5 to 7 feet apart according to space you can spare. Fourth, plant the seed in the furrows about 6 feet apart, covering the seed not more than 1 inch deep and as the plant grows gradually fill up the furrow about it with soil until level with surface.

Continuous cultivation is now necessary and where soil conditions require, systematic irrigation should be followed. Do not, however, irrigate close to the plant as it will cause dampening off, and other diseases. The roots of the plant being as long as the vine, close up irrigation is not necessary and in cultivating see that these roots are not disturbed as it would ruin the plant. Practice frequent shallow cultivation. Plant 8 seeds to the hill and when thoroughly established pull out all but three. Two to three pounds of seed is used to an acre.

MELON PESTS.—This is one of the few varieties of vegetables subject to pests. Watch out for cut worms, aphis and blight. For cut worms, use Paris Green or Corona Dry (Arsenate of Lead) mixed with bran spread about the plant. For Aphis use Black Leaf "40", upon first indication as control is easier than cure. For Melon Blight, control by use of Bordeaux Mixture. Spray heavily at the crown of the plant so the liquid may follow the main stem below the surface 2 or 3 inches.



THOROUGHBRED ROCKY FORD CANTALOUPE



OODOO CANTALOUPE

BURRELL'S GEM CANTALOUPE

Catalogue Prices Subject to Change Without Notice.

GREEN FLESHED VARIETIES

	Pkt	Oz.	¼ lb	1 lb
Germain **BURRELL'S THOROUGHBRED ROCKY FORD CANTALOUPE.** This is considered an improvement on the Rocky Ford; our seed is selected with the greatest care	$ 05	$ 15	$ 50	$1 50
CHAMPION MARKET. This is the most prolific, flesh green and deep. Fine flavor. Fruit nearly round, ribbed and heavily netted	05	15	40	1 25
Germain **EDEN GEM CANTALOUPE.** This is one of the finest melons to grow, either for market or home use. It is immensely prolific, twenty to thirty perfect melons to a vine being common. The skin is heavily netted, flesh light green and of excellent quality	05	20	55	1 75
Germain **EXTRA-EARLY HACKENSACK.** Very popular sort, producing large, handsome, extra early melons of best quality. It is some two weeks earlier and almost as large as the famous New Jersey Hackensack; fruit nearly round, deeply ribbed and very coarsely netted. The flesh is green and most delicious	05	15	40	1 25
IMPROVED WATTER'S SOLID NET. A splendid early variety largely grown by market gardeners, medium sized fruit, heavily laced netting, slightly ribbed; flesh light green, sweet and fine flavor	05	20	65	2 00
JENNY LIND. Small, round, flat fruits, deeply ribbed; flesh yellowish-green and of unsurpassed flavor, very productive	05	15	40	1 25
LARGE HACKENSACK. Large fruit covered with coarse netting; thick green flesh, sweet and fine flavored	05	15	40	1 25
LARGE YELLOW CANTELOUPE. Large oblong-shaped fruit, coarsely netted, ribbed slightly; flesh greenish yellow. Very sweet	05	15	40	1 25
LONG ISLAND BEAUTY. Fruits of large size, well flattened, heavily ribbed and netted; of handsome appearance and fine quality. This variety ripens as early and is superior to the Hackensack	05	15	40	1 25
MODEL. Early and very prolific; flesh green, thick and fine flavor; oblong in shape, ribbed and finely netted. Splendid market variety	05	20	65	2.00
MONTREAL MARKET. A very large, green nutmeg type, almost round, heavily netted; thick, luscious flesh, late and especially adapted to cool climates	05	15	40	1 25
Germain **PINEAPPLE CANTALOUPE.** Large size, early, flesh green and rich flavor. Excellent shipper and a prime favorite with all	05	15	40	1 25
PROLIFIC NUTMEG. Thick green flesh, fine flavor	05	15	40	1 25

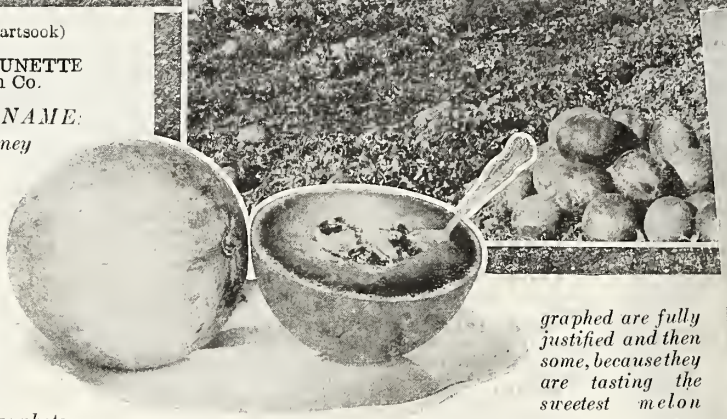
SALMON FLESHED VARIETIES

	Pkt	Oz.	¼ lb	1 lb
ARMENIAN. A new variety, yellow flesh, heavily netted but of smooth rind. Very sweet and of distinctive flavor. Splendid keeper—average weight about 7 pounds each—many much larger	10	30	1 00	3 00
BANANA. Grows one and a half to two feet in length and three or four inches in diameter; flesh salmon, and exquisitely flavored, resembling banana. Brings a high price in eastern markets	05	15	40	1 25
Germain **BURRELL'S GEM.** A splendid new variety. Superior to Rocky Ford. Flesh thick, salmon in color and fine flavor; rind heavily netted, grows to twenty pounds each	05	15	50	1 50
Germain **CASAD'S IMPROVED SPECIAL.** See specialty on page 25.				
Germain **HOODOO.** A new and excellent variety; an ideal shipper of medium size; rind thin; flesh very thick firm and highly colored; of fine texture and delicious flavor	05	15	50	1 50
EMERALD GEM. A small, very early melon; form globular, flesh salmon-colored, exceptionally fine flavor.	05	15	50	1 50
MANGO MELON, or "VINE PEACH;" Fruit is size of a peach, of bright orange color; are not eaten raw but are fine for preserves, pies, pickling, etc. Ripen soon after falling from vine	10	20	65	2 00
MILLER'S CREAM, OR OSAGE. The fruit is large and round, with light green netted skin and thick, sweet, salmon-colored flesh	05	15	40	1 25
NUTMEG TIP TOP. An improved strain; very sweet	05	20	65	2 00
PAUL ROSE. Handsome; oval, new variety; rich orange, flesh very sweet	05	15	40	1 25

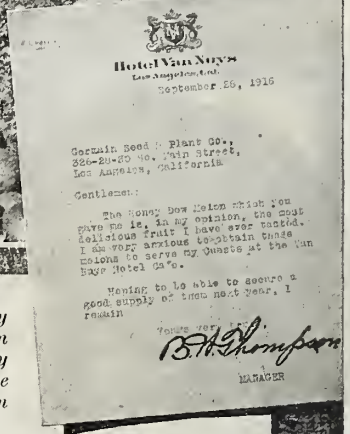
Germain's "Honey Dew" Melon

(Photo by Hartsook)

FRITZIE BRUNETTE
Selig Film Co.



WHAT'S IN A NAME: Germain's "Honey Dew" Melon is everything the name implies. It is not an empty nomer for even the name "Honey Dew" fails to fully convey the undescribable deliciousness of this excellent melon. The smiles of the young ladies on this page as photographed are fully justified and then some, because they are tasting the sweetest melon grown.



Hotel Van Nuys
Los Angeles, Cal.

September 26, 1916

Germain Seed & Plant Co.,
326-28-30 So. Main Street,
Los Angeles, California

Gentlemen:

The Honey Dew Melon which you gave me is, in my opinion, the most delicious fruit I have ever tasted. I am very anxious to obtain these melons to serve my Guests at the Van Nuys Hotel Cafe.

Hoping to be able to secure a good supply of them next year, I remain

Yours very

B. H. Thompson

MANAGER

Here's the most delicious melon you ever tasted. It is the aristocrat of all melons. Note the reproduction of the letter on this page from Manager Thompson of the Hotel Van Nuys. The color of Germain's Honey Dew Melon is a dull creamy white. The rind is very thin and close grained. The flesh is a rich green, very fine grained and exceptionally sweet and juicy. The flavor is indescribably delicious. It is a long keeping melon, remaining in good edible condition for several months. The size is about six to seven inches in diameter from top to bottom and about eight inches wide.

The fact that Germain's Honey Dew Melons may be selected by color when being picked for market enables the grower to know in advance that his entire shipment is composed of first class melons such as will please the most fastidious trade. This feature makes this melon a very valuable type to grow for market.

If you want the very last word in melon flavor, don't fail to plant Germain's Honey Dew. This is the melon that now commands fancy prices in every market.

PRICES: 10c. per packet; 25c per ounce; 80c 1-4 lb.; $2.50 per lb.

AGNES VERNON
Universal Film Co.

(Photo by Hartsook)

MUSKMELONS

Note—Prices listed are postpaid.

HOT BED VARIETIES

The hotbed muskmelons listed opposite are English varieties, and while in their native country they are grown under glass, yet under the exceptional climatic conditions existing in the Southwest, they are very successfully grown in the open.

	Pkt	Oz.	¼ lb	1 lb
Germain **BLENHEIM ORANGE.** A prime favorite; scarlet flesh	25			
Germain **WINDSOR CASTLE.** Green flesh, oval shape, finely netted, delicious flavor	25			

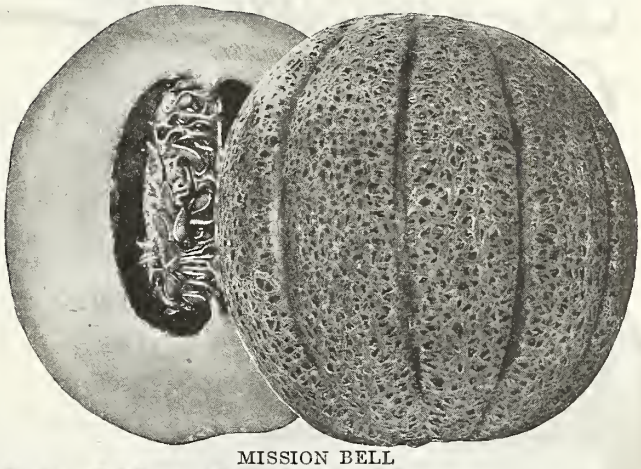
GERMAIN'S "MISSION BELL" CANTALOUPE

A wonderful cantaloupe developed by crossing the popular Burrell Gem cantaloupe and the famous *Pollock No. 25.

We consider ourselves very fortunate in being able to offer this splendid melon. The flesh is a full salmon color even up to the very rind, and is of unsurpassed flavor, bearing a high percentage of sugar. The rind is heavily netted and the melon is larger than medium size.

Mission Bell is a vigorous grower, early bearer, and if planted a bit late in the season is not so acutely susceptible to frost. An outstanding feature is the keeping qualities, both on the vine and after being picked. For an all round family melon, here is a crackerjack; and as for the market gardeners, we can say Mission Bell is grown by California's most extensive melon growers. You can't beat the Mission Bell. **Pkt. 10c; oz. 40c; ¼ lb. $1.35; lb. $4.00.**

** Pollock No. 25 was made famous by Imperial Valley growers where it was used exclusively until Mission Bell was introduced.*



MISSION BELL

CASAD'S IMPROVED MUSKMELON

After five seasons of unqualified success we are more than justified in giving prominence to this magnificent melon. Its decided characteristic quality really entitles it to a distinct classification of its own. Neither a selected muskmelon or cassaba, its delicious individuality and remarkable stability as to type, mark it as one of the producing sensations of the decade. Its thick, smooth, close grained flesh, with a flavor bordering on the pineapple makes it the very choicest melon for the table, and its prolific hardy nature a delight to the grower. **Price, packet 25 cents, ounce 40 cents, ¼ pound $1.25, pound $4.00. Prices postpaid.**

Germain Seed & Plant Co.,
Los Angeles, Cal.

Gentlemen;

I feel it is due your firm that you know of the success attained with Casad Melons the past two seasons. I believe that they are the best melon to plant, particularly for home gardens. They are large, heavy in meat, and most delicious and tender.

One very great advantage is the long season; the second crop melons are good sized and of fine flavor. You are to be congratulated on introducing this splendid addition to the vegetable kingdom.

Yours very truly,
(signed) Geo. Rice. Jr.

P.S. You are at liberty to add to this in any manner, and make me say anything you want about this melon. I can't say enough. Jr.

CASSABA MELONS

Note—Prices listed are postpaid.

CULTURE—The same as Muskmelon. Follow carefully.

CASABA POINTERS—The Casaba is an exceptionally fine melon if grown, picked and cured properly and to insure success follow our pointers.

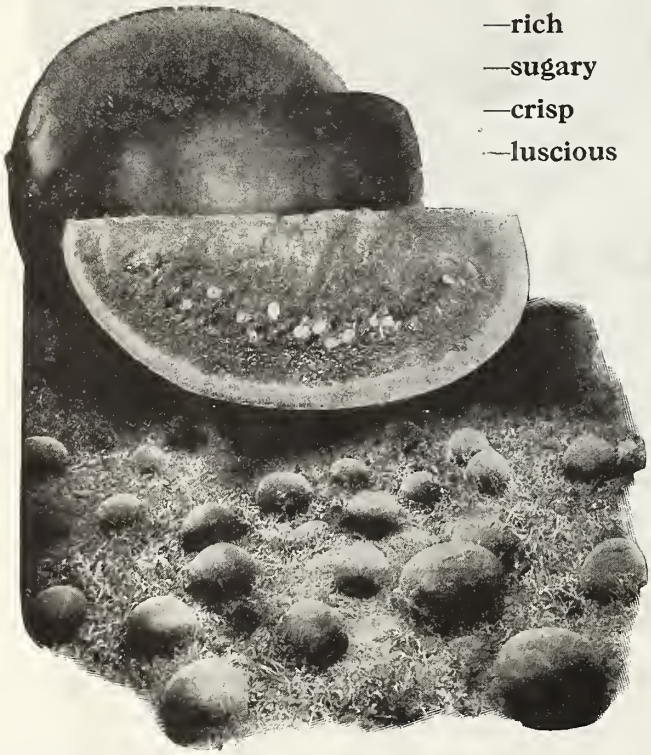
1. For early Casabas plant as soon as weather will permit, usually March. For a late crop plant from middle of June to middle of July.
2. Picking at the proper time is very important. If desired for immediate use do not pick until the rind will give under pressure, using the thumb to determine this. If rind is firm the melon is not ripe and full flavor has not yet developed.
3. Casabas can be picked green and held in storage until ripe. Green melons are used for shipments of any distance. Do not pick for shipment until the melon has lost its shiny appearance.

	Pkt	Oz.	¼ lb	1 lb
EASTERN. Long oval-shaped, skin very thin and delicate; flesh extremely tender, rich and sweet	05	10	35	1 00
GENOA. A late variety of oblong shape; skin dark green with whitish marking; flesh pale green, nearly white, of excellent flavor, and fine aroma. An Italian melon, in which country it is largely grown and highly esteemed for its fine qualities	10	30	1 00	3 00
Germain **GOLDEN BEAUTY.** A variety of Winter Pineapple which it resembles in every way except color	10	25	80	2 50
IMPROVED HYBRID. A variety that ripens late and is a good keeper. Thick flesh of excellent quality	10	25	80	2 50
Germain **SANTA CLAUS.** The latest melon grown. Thin, hard skin with yellowish brown markings, flesh light green and good flavor. Can be picked in September or October and will keep for several months	10	25	80	2 50
WHITE AFRICAN. A delicious melon. This melon must be harvested before it is ripe	10	30	1 00	3 00
Germain **WINTER PINEAPPLE.** A large, late melon, of unique appearance, corrugated skin, green flesh of pronounced pineapple flavor. Melons do not ripen on the vines. Flavor is greatly improved by being stored in a cool place	10	20	65	2 00
WHITE'S FAVORITE CASSABA. A large and early casaba with a wonderfully sweet flavor. Very prolific, ripens on the vine. Extremely popular with growers because of the heavy demand for it by housewive. Easily grown	10	30	1 00	3 00

IMPROVED HYBRID CASSABA

Germain's Wonder Watermelons

Four Big Favorites



—rich
—sugary
—crisp
—luscious

The New Black Seeded

Angeleno Watermelon

A combination of the unexcelled qualities of the famous angeleno and the favorite black seeded Chilian. Undoubtedly a melon of par excellence and a prime favorite for the market. The sweet meat of this melon together with its crisp, sugar crystal formation endears it upon first use.

Per packet 5c; Ounce 20c; ¼ lb. 70c; 1 lb. $2.00.

Brazilian Watermelon

You'll like this crisp, refreshing, delicious melon. Hundreds of discriminating market and home gardeners endorse this unusual watermelon.

You'll like its bright red crisp flesh of delicate granulated texture. This melon is the triumphant result of many years of careful hybridizing.

The Brazilian was originated by one of the most successful market gardeners of Southern California. This fact insures its adaption to planting in this section. We have bought the entire seed production ever since its introduction. The melon is oval in shape with a medium thick rind and a beautiful apple green skin. We strongly recommend the Brazilian melon for home use and close-in markets.

Per Packet 5c; Ounce 10c; ¼ lb. 40c; lb: $1.25. Prices are Postpaid.

That wonderful, improved white seeded

Chilian Watermelon

Another unusual melon of exceptional merit. It is extra solid, extra crisp and extra sugary.—a great favorite with growers because of its remarkable eating and shipping qualities. Each melon contains but few seeds and the crisp deep red flesh looks as though frozen to a crystal-like iciness.

Per Packet 5c; Ounce 10c; ¼ lb. 40c; 1 lb. $1.25. Prices are Postpaid.

The fine flavored improved black seeded

Chilian Watermelon

This melon possesses a rich, fruity flavor. It has all the good qualities of the white seeded melon but is a trifle sweeter and has a very thin rind. Home gardeners like this variety because of its moderate size and delicious flavor. We advise you to plant this variety this season.

Per Packet 5c; Ounce 10c; ¼ lb. 40c; 1 lb. $1.25.

Mushroom Spawn

Seta **Schwamm** **Champignon**

Cultural instructions for growing mushrooms given free to every purchaser of spawn.

GERMAIN'S PURE CULTURE. This spawn is specially prepared for us and produces results where the average spawn proves a failure. It is a strong strain of spawn thoroughly acclimated to California conditions and selected with reference to earliness, size, flavor, appearance prolificy and quality of the mushrooms that it will produce. We highly recommend this spawn to those who intend to raise mushrooms for the market. Standard bricks (secured by bed inoculation) 30 cents per brick. Direct bricks (secured by laboratory inoculation) 35 cents per brick. Postage 15 cents per brick extra.

LAMBERT'S PURE CULTURE SPAWN. Standard bricks, 25 cents per brick. Direct bricks, 30 cents per brick. Postage 15 cents per brick extra.

Mustard

Note—Prices are postpaid.

Mostaza **Senf** **Moutarde**

CULTURE—Sow any time in the year, though autumn sowing brings best greens for they revel in cool weather. Not particular as to soil, though a medium heavy one is best.

CHINESE GREEN. Gui Toi.....	$ .10	$ .40	$1.35	$4.00
CHINESE WHITE. Bak Toi.....	.10	.30	1.00	3.00
Germain **OSTRICH PLUME.** So called for its feathery appearance; ornamental as well as useful.....	.05	.15	.50	1.50
Germain **SOUTHERN CURLED.** Leaves large, fourteen to sixteen inches in length, which are cooked like spinach, and have a very agreeable flavor. One of the best green foods for poultry.....	.05	.10	.40	1.25
WHITE LONDON. Best for salads or medicinal purposes.....	.05	.10	.15	.40

WATERMELONS

Note—Prices listed are postpaid.

Sandia **Wassermelone** **Melon d'Eau**

CULTURE—The same culture as applied to the Muskmelon is employed in growing Watermelons. Furrows of about 8 inches depth are prepared and 6 to 8 seeds are planted about 1½ inches deep every 10 feet in the furrow; furrows about 8 feet apart.

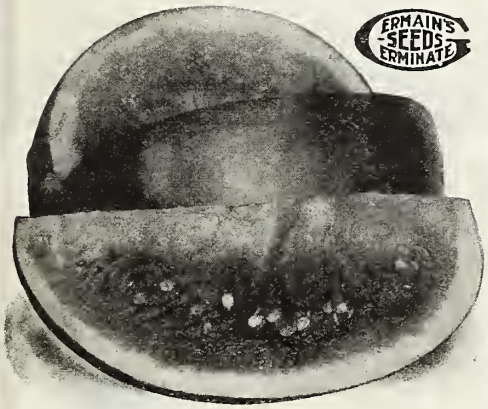
This plant assumes a more rapid growth than Muskmelons, consequently more frequent cultivation and care must be given while the plants are young. As the plants grow in the furrow, fill in the soil about them so as to establish roots well into the deeper soil and when the plants are securely established pluck out all but two of the most hardy and healthy ones. The furrows in which the plants are growing want to be filled gradually as the plants grow until level with the surface, and then in early cultivating throw the soil towards the plant until a slight knoll or hill is formed.

In irrigating soak ground thoroughly and follow by cultivation as quickly as practicable, in order to keep a permanent mulch and maintain the moisture. Use one and one-half pounds of seed to an acre.

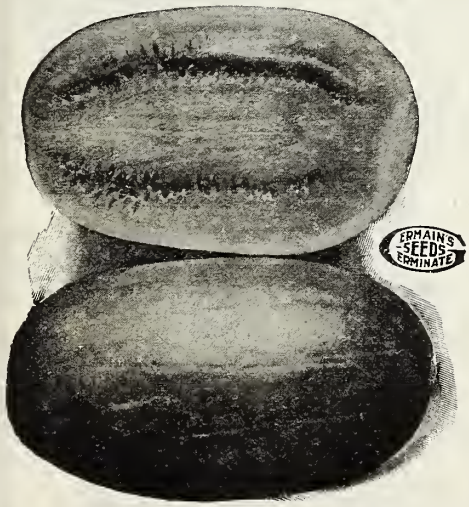
ALABAMA SWEET

For over sixteen years I have bought my seed from you, and have always found them entirely satisfactory in every way.
D. M. McMILLAN, Whittier, Cal.

	Pkt	Oz.	¼ lb	1 lb
ALABAMA SWEET. A very popular variety in the south, especially in Texas, where they grow it in preference to any other. In shape it is long, color dark green, flesh red and absolutely stringless	$ 05	$ 10	$ 25	$ 75
Germain **ANGELENO.** A top notch melon; big producer, excellent shipper, oval shaped and fine color; medium size to large; pick only when green shades to gold. A prime favorite with all	05	15	50	1 50
BLACK SEEDED ANGELENO. See specialty opposite page.				
Germain **BRAZILIAN.** See specialties on opposite page.				
CUBAN QUEEN. Melons are oblong in form; skins striped, dark and light green. Rind quite thin, but tough enough for shipping. Flesh bright red and of fine quality	05	10	25	75
Germain **FLORIDA FAVORITE.** An old popular, long-stripe melon of good quality	05	10	35	1 00
Germain **FORDHOOK EARLY.** This is the earliest large-fruited melon in cultivation, often weighing thirty to forty pounds each; has deep green skin and is an excellent shipper; the flesh is light red, sweet and of splendid quality	.05	10	25	75
GEORGIA RATTLESNAKE, OR GYPSY. Standard southern variety, which possesses remarkable shipping qualities; oblong, scarlet flesh, crisp and juicy	05	10	35	1 00
Germain **GERMAIN'S IMPROVED BLACK SEEDED CHILIAN.** See specialty on opposite page				
Germain **GERMAIN'S IMPROVED BROWN SEEDED CHILIAN**	05	10	40	1 25
Germain **GERMAIN'S IMPROVED WHITE SEEDED CHILIAN.** See specialty on opposite page.				
HALBERT HONEY. Oblong, dark green skin, thin rind, crimson flesh, luscious flavor	05	10	35	1 00
Germain **KLECKLEY'S SWEET.** This new melon is one of the best for the home market or family use. The melons are large, eighteen to twenty inches long and ten to twelve inches in diameter, dark green; rind thin, flesh scarlet and very sweet	05	10	35	1 00
Germain **KLONDIKE.** Pasadena's favorite. A novelty of recent introduction. One of the sweetest and most prolific melons. Seeds one-half as large as in other melons. Although not a good shipper, good for local consumption	10	20	65	2 00
KOLB'S GEM. A strong grower, a large, round or oval-shaped melon. Striped irregularly with dark and green mottlings, flesh firm and rich, a good keeper	05	10	25	75
SWEET HEART. Large fruits of oval or round form; flesh is a deep rich red, crisp and melting	05	10	25	75
Germain **TOM WATSON.** An exceedingly popular melon in the South. Fruit large, running at times as high as sixty pounds. Rind thin but tough, consequently a good shipper. A dark green in color with flesh a brilliant scarlet. Very large with small seed area. An early variety of delicious flavor	05	10	40	1 25
Germain **YELLOW-FLESHED ICE CREAM.** This melon has become very popular among the growers around Los Angeles; in fact, in past seasons we have never been able to secure enough stock to supply the demand. The melon grows very large, of oblong shape, the flesh is a beautiful yellow, and has a peculiar, delicious flavor, different from any other variety	05	15	50	1 50



ANGELENO



KLONDIKE

PRESERVING MELON

Note—Prices listed are postpaid.

	Pkt	Oz.	¼ lb	1 lb
Germain **COLORADO PRESERVING CITRON.** Excellent for making preserves	05	10	35	1 00

STOCK MELON

Note—Prices listed are postpaid.

	Pkt	Oz.	¼ lb	1 lb
Germain **GREEN SEEDED CITRON.** A hardy, productive variety for feeding purposes	05	10	25	75
RED SEEDED CITRON. Same as green only red in color	05	10	25	75

ONIONS

Cebolla **Zwiebel** **Ognon**

Note—Prices listed are postpaid.

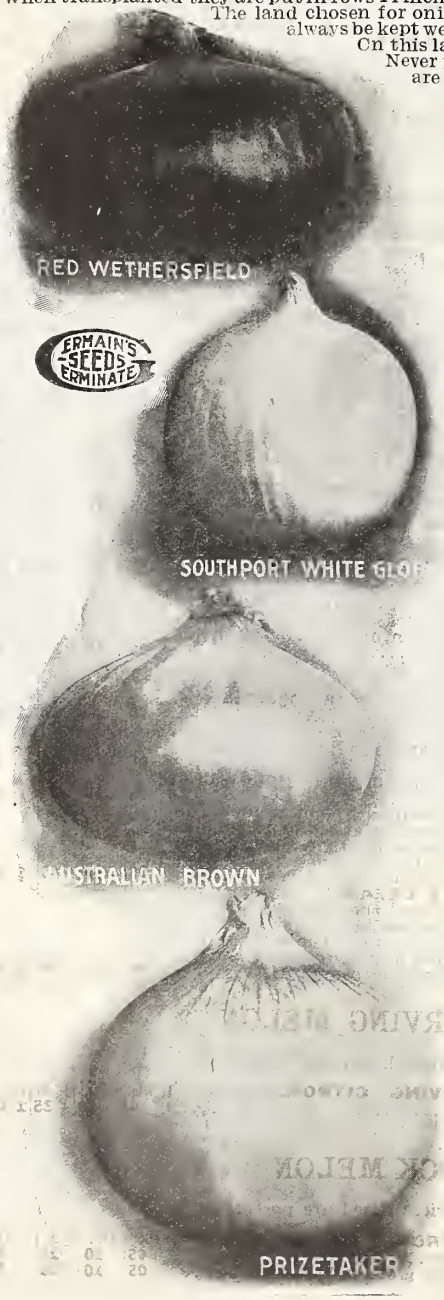
CULTURE—Many different methods of planting onions are in practice but the one most practical to the general market grower is the following method:

Planting in this section usually starts in December, January and February unless the season is exceptional and then possibly earlier. The primary requisite is good seed and in this we excel, our seed being produced by experts who have been growing for us for years and our trade has been greatly increasing due to the excellence of our seed.

Sow onion seed with a seed drill in rows 14 inches apart, using on this basis from 4 to 4½ pounds of seed per acre. The land must be thoroughly plowed, disced, and harrowed when necessary. It is impossible to prepare your land too carefully in growing the onion as it responds readily and in order to get maximum yields, thorough preparations must be made.

As soon as the plants appear, hand weeding must start both in and between the rows. From this point on the plants must have a steady even growth as a check whether from disease or drought will cause them to go to seed extensively. When the onions are ready for harvesting the tops will be well ripened down. If, however, the tops are still green we would suggest running a light roller or plank over the field to press them down. In ten days after this operation the onions should be pulled and left in the field one deep to dry. When thoroughly dried the tops can be removed. However we do not recommend this until ready to ship to market. If the onions are to be kept any period of time they should not be sacked but put on a floor or in a bin where there is a complete circulation of air. In some localities the transplanting system is followed. If this is done the seed should be planted in beds during August and September and transplanted to permanent field during February and March. The seed should be sown broadcast in the bed about ¼ of an inch deep. When transplanted they are put in rows 14 inches apart and 6 inches apart in the row.

The land chosen for onions should be damp or easily irrigated, preferably loose sandy loam or peat and should always be kept well drained. Heavy adobe or clay soil is good but here irrigation must be carefully practiced. On this latter soil onions do not color up as well nor are they as even in shape as on lighter soil. Never pick weedy land for onions and avoid lands just free of grain crops. Garden lands are always preferable. Repeated planting for more than two successive seasons on the same ground is not advisable as onion diseases are bound to appear.



Germain RECOMMENDS

AUSTRALIAN BROWN ONION

The first requirement of the market gardener in selecting an onion is its shipping quality. The producer for home use finds this feature of equal value, for it insures him a prime supply of the vegetable in the cellar bin at all times. In stocking the Australian Brown, Germain's are entirely satisfied that under the most adverse conditions the grower will be more than pleased with this variety. The flesh is pure white, close layered, juicy and tender, growing to a good size. This hardy variety does especially well in the South, and when planted in rich, sandy soil and given an abundance of water, will produce more to the acre than any onion that has come under our observation. Germain's customers will not regret planting the Australian Brown, and we are pleased to note that we are stocked to take care of all orders. Packet, 5 cents; ounce, 25 cents; one-fourth pound, 80 cents; one pound, $2.50.

	Pkt	Oz.	¼ lb	1 lb
AUSTRALIAN BROWN. See specialty above.				
Germain **BERMUDA RED.** An early variety resembling the White Bermuda, except in color, which is a pale red, flesh crisp and mild flavor. Fine market onion. (Teneriffe-grown)	10	35	1 15	3 50
Germain **BERMUDA WHITE ONION.** This variety is more extensively grown for the early market than any other. Being ready for shipping when the storage supply is exhausted they bring the very highest price. Our stock of seed is from the Island of Teneriffe, grown by the most reliable seed grower in that celebrated district. A large, flattish onion, very mild and of a pale straw color	10	25	1 15	3 50
Germain **CRYSTAL WHITE WAX.** A large white onion of the Bermuda type, becoming more popular every year. It is very early, mild in flavor. Excellent shipper and keeper. The seed is very generally sown in beds, and transplanted to the fields when partly grown. Our stock of seed is from the same Teneriffe grower that has supplied us with our fine strain of White Bermuda seed for years. While the supply is limited we are able to offer	10	50	1 65	5 00
EARLY BARLETTA OR ADRIATIC BARLETTA.	Crop Failed			
GERMAIN'S GREAT BUNCHING ONION. See specialty opposite				
LARGE RED WETHERSFIELD. One of the leading varieties for many years. In color the skin is a deep purplish red. The flesh is white, tinged with red, and of good quality, crisp and solid. It grows to a large size and is both a good keeper and shipper. Our strain of seed of this onion is very fine	05	45	1 50	4 50
Germain **MAMMOTH SILVER KING.** A large white onion with a silvery skin, flattened on top but quite thick. The flesh has a mild, pleasant flavor, and is so sweet it can be eaten like an apple. They have been known to weigh over three pounds, and yield at the rate of 4,000 pounds to the acre. They mature early and are good keepers	Crop Failed			
NEW QUEEN.	Crop Failed			
Germain **PRIZE-TAKER.** The largest of the yellow onions, globular in shape, of a pale straw color. Produces enormous crops; bulbs frequently weigh as high as three pounds	05	50	1 65	5 00
SOUTHPORT RED GLOBE. Grows to a good size, rich red color with small neck. A fine keeper	05	30	1 00	3 00
Germain **SOUTHPORT WHITE GLOBE.** A great yielder, fine grained and firm; flavor mild	05	60	2 30	7 00
SOUTHPORT YELLOW GLOBE. The Southport Onions are handsome globe-shaped bulbs of excellent quality, uniform in size and fine keepers. The yellow is one of the earliest	05	50	1 65	6 00
Germain **WHITE PORTUGAL, OR SILVER SKIN.** One of the leading white sorts, of beautiful shape and very mild flavor. The bulbs are flat and mature early. A splendid variety for market garden. Bulbs average two to three inches in diameter	05	60	2 00	6 00
Germain **YELLOW FLAT DANVERS.** This is one of the very earliest varieties, a good shipper and keeper. Flat in shape, of straw color and mild in flavor	05	40	1 35	4 00
YELLOW GLOBE DANVERS. A well known early onion of fine quality. Flesh white and firm. Color a bright orange; grows to a good size, hardy, a sure cropper and excellent keeper	05	50	1 55	5 00

GERMAIN'S GREAT BUNCHING ONION

ONIONS

Germain RECOMMENDS

GERMAIN'S GREAT BUNCHING ONION

This variety fills a long felt need for both the amateur and the professional gardener. It produces the long, tender and sweet green onions which are justly so popular on the table of those who enjoy good eating. Germain has gone to great expense and effort to secure this masterpiece of gardening. Germain's Great Bunching Onion has stood the test of the largest and most critical gardeners in and around Los Angeles. It can be easily grown in every garden. Pull while medium sized before the bulb has formed. Price, packet 10 cents, ounce 60 cents, ¼ pounds $1.85 cents, pound $5.50. Prices are postpaid.

ONION SETS

Note—Prices on half pound and pound quantities include postage or expressage prepaid. When sent otherwise, deduct 10 cents per pound or fraction thereof. Prices listed for larger quantities if desired sent by Parcel Post, necessary postage should be added. See our Parcel Post Schedule on page 1. If quantities are desired, do not fail to write for special prices.

Grown from seed that has been sown too thickly to attain a large size. These small onions are planted out and are soon ready to pull for the table or bunch for market. If left to stand they make ripe onions of excellent quality. Maturing about six weeks earlier than crop grown from seed.

	1 lb	100 lb
BERMUDA. We can supply from July 1st until October 1st	.35	Write for
BROWN AUSTRALIAN	.35	prices
WHITE PORTUGAL	.40	in large
YELLOW DANVERS	.35	quantities

GARLIC SETS. See page 20

ONION SETS

OKRA

Note—Prices listed are postpaid.

Quimbombo **Ocher** **Gombaud**

CULTURE—Seed can be planted from the middle of March until the latter part of August. Plant in rows 8 inches apart in rows 3 feet apart. Plant seed 1½ inches deep. One ounce of seed will sow 50 feet of row. This vegetable produces long and nutritous pods which when young are used in soups and stews, to which they impart a rich flavor.

	Pkt	Oz.	¼ lb	1 lb
LONG GREEN. Later and more productive; ribbed pods	.05	.10	.25	.75
Germain **PERKINS' MAMMOTH.** Plant dwarf; very productive. Produces beautiful, long slender green pods, which remain tender a long time. An extra choice variety	.05	.10	.25	.75
Germain **WHITE VELVET.** Pods round, smooth, free from seams; exceedingly tender, well flavored and very prolific	.05	.10	.25	.75

PARSLEY

Note—Prices listed are postpaid.

Perijil **Petersilie** **Persil**

CULTURE—Same as Lettuce, see page —.

Every garden should include parsley as its demands and uses are constant by the housewife. Being ornamental, it makes a very attractive border plant for the flower garden. It may be planted as such if you have not room in the vegetable plot.

Plants, see page 83.

	Pkt	Oz.	¼ lb	1 lb
Germain **CHAMPION MOSS-CURLED.** Vigororous compact-growing variety; excellent for garnishing and flavoring; also a handsome decorative plant; leaves fine and crisp, resembling moss; a most popular sort for the market and home garden	$ 05	$ 15	$ 40	$1 25
FERN-LEAF MOSS. Most exquisite in form and color; exceedingly fine for varnishing and flavoring	05	15	40	1 25
Germain **HAMBURG, OR TURNIP-ROOTED.** The roots are excellent for flavoring soups	05	10	35	1 00

CHAMPION MOSS CURLED PARSLEY
DOUBLE CURLED PARSLEY

PARSNIP

Note—Prices listed are postpaid.

Chirivia **Pastinake** **Panais**

CULTURE—Sow any month in the year in drills of rich soil one and one-half inches deep and fifteen inches apart, and cultivate the same as carrots; thin to four inches apart. One ounce of seed will sow about 100 feet of row.

	Pkt.	Oz	¼ lb	1 lb
Germain **HOLLOW-CROWNED.** Best parsnip grown either for table or stock	05	20	55	1.75

PEAS

Chicharos o Guisantes — Erbsen — Pois

Note—Prices on half pound and pound quantities include postage or expressage prepaid. When sent otherwise, deduct 10 cents per pound or fraction thereof. Prices listed for larger quantities, if desired sent by Parcel Post, necessary postage should be added. See our Parcel Post Schedule on page 1. If quantities are desired, do not fail to write for special prices.

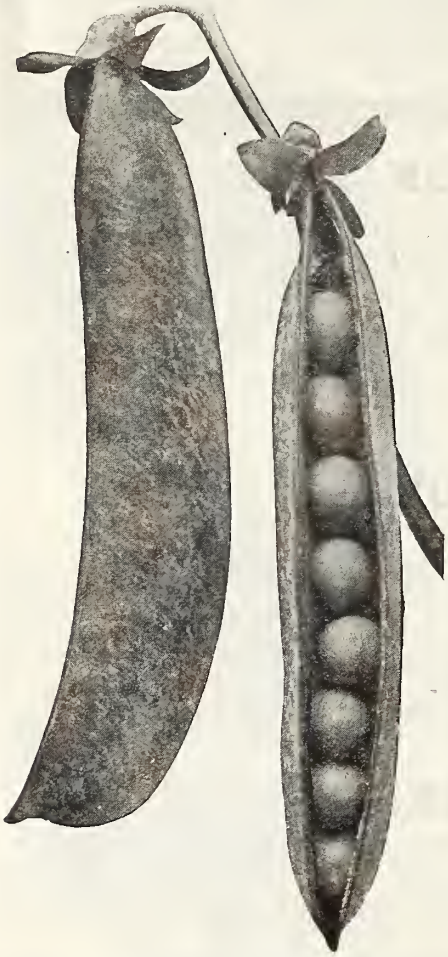
CULTURE—We classify Peas into three distinctive types. First early, second or medium early, and late. Of the early peas, we recommend Notts Excelsior, American Wonder and Gems. These planted in August and September will come into bearing for the early high price market. For the home garden first early the little Marvel should be used. The main market gardeners crop is of the second early type and we recommend the Stratagem and Admiral or Senator for this planting. Of the late peas the Telephone is to be preferred.

Peas may be planted in almost any kind of soil. In light soil during the warmer months they should be planted about 3 inches deep so as to be near moisture. In heavier soils or in fall months plant about 1 inch deep, that warmth may penetrate and help germinate the seed.

Excessive moisture will rot the seed, so do not irrigate after seed is planted until the plants are well out of the ground; this is an important point. Cultivate after each irrigation. Usual planting is at rate of 60 pounds per acre.

One of the commonest diseases of peas is Mildew, which is overcome by thorough dusting with sulphur in the early morning while the plants are yet moist with dew.

To increase your crop inoculate your seed with Farmogerm. They will produce bigger, better and more peas. Read page 43.



ADMIRAL OR SENATOR

ADMIRAL OR SENATOR

This variety was introduced recently and due to its great productive ability and the quality of its product it is a great favorite among our market garden trade. It bears pods in pairs as shown by cut opposite, the pods containing eight peas each, with a flavor that is exceptional and with such excellent keeping qualities that they may be held some time after picking.

As a home garden variety we highly recommend it.

Packet 10 cents, one pound 40 cents, 10 pounds $2.75,

FIRST EARLY VARIETIES

	Ht.ft	Pkt	1 lb	10 lb	100 lb
AMERICAN WONDER. This is an early wrinkled pea of dwarf habit, the vines generally being about a foot high. Especially good for the private garden. It is quite distinct from other peas, being very stocky and erect. Very prolific...	1	10	40	2 75	WRITE FOR PRICES
DWARF TELEPHONE. This is a dwarf growing strain of the "Telephone" variety.....	2	10	40	2 75	
Germain **GRADUS.** An early wrinkled pea of the finest quality, bearing large pods well filled with the sweetest peas you ever ate. It is not only large and of good quality, but it is also one of the very earliest sorts, and brings the best prices. The demand for these peas from the hotel and choice trade is never supplied. Market gardeners should plant a liberal acreage of this variety. Does best in loamy soil.....	2½	10	40	2 75	
LITTLE MARVEL. One of the first among the early varieties, bearing its peas in groups of two to a stem. The peas are small, the pods well filled, of delicious flavor, being exceedingly sweet.....	...	10	40	2 75	
Germain **McLEAN'S LITTLE GEM.** A dwarf first early pea of unusual value. Vines average fifteen inches in length; they bear pods about two and a half inches in length, often borne in pairs when mature, always tightly filled with peas of excellent flavor. As early as any but with a larger pod than most early varieties.....	1	10	40	2 75	
Germain **NOTT'S EXCELSIOR.** A splendid dwarf wrinkled sort, one of the best, hardy, vigorous, and will mature almost as soon as the smooth varieties, often ready to pick in fifty days. The pods usually contain from seven to nine peas. Tender and of fine flavor. This variety is rapidly growing in favor for early planting, as its hardiness and quick growth make it a very profitable market pea.....	1½	10	40	2 75	
PREMIUM GEM. A fine early wrinkled pea with vines about fifteen inches high, pods long and produce in abundance. A profitable market variety excellent for private use.	1½	10	40	2 75	

SECOND EARLY VARIETIES

	Ht.ft	Pkt	1 lb	10 lb	100 lb
ADMIRAL OR SENATOR. A new sort introduced on our local market about three years ago. It is a good second early pea, has thick green foliage, and bears abundantly, large well-filled pods. We consider it one of the best peas for our local markets. See specialty above.					
DWARF SUGAR or EDIBLE POD. A low growing vine bearing large sweet pods that can be cooked and used the same as stringless beans. Vines bear heavily of peas that have delicious flavor.....	.....	10	35	....	Write for Prices
STRATEGEM. A very heavy cropper, producing large, well-filled pods of excellent quality. One of the finest peas in cultivation.....	2	10	35	2 25	
YORKSHIRE HERO. Its strong, vigorous growth makes this pea especially valuable to the market gardener and in the home garden that is not too well taken care of, it will naturally be found the most healthy and productive of all the vegetables. It grows bushy, yields prodigiously, pods are filled with delicious peas.....	..	10	35	2 25	

LATE VARIETIES

	Ht.ft	Pkt	1lb	10 lb	100 lb
Germain **ALDERMAN.** See specialty opposite.	5				Write for Prices
Germain **TELEPHONE.** A fine wrinkled pea growing about four feet high. The peas are large, and of a pale green color. It is a second early variety, very prolific and the pods are very large containing eight or ten peas...	5	10	35	2 25	

Germain RECOMMENDS

ALDERMAN PEAS

A wonderfully well flavored Pea and one that is bound to be sold largely in this market. In habit, the vines are tall and branching, bearing large deep green, straight and handsome pods, averaging 4½ to 5 inches in length. When it is well known, this Pea to our notion, is bound to supersede the "Telephone". Do not fail to include the Alderman Pea in your order, and if you are a market gardener and desire to grow a Telephone Pea, specify Alderman. It will make you money.

Price, Packet 10 cents, one pound 35 cents, 10 pounds $2.25.

PEPPERS

Note—Prices listed are postpaid.

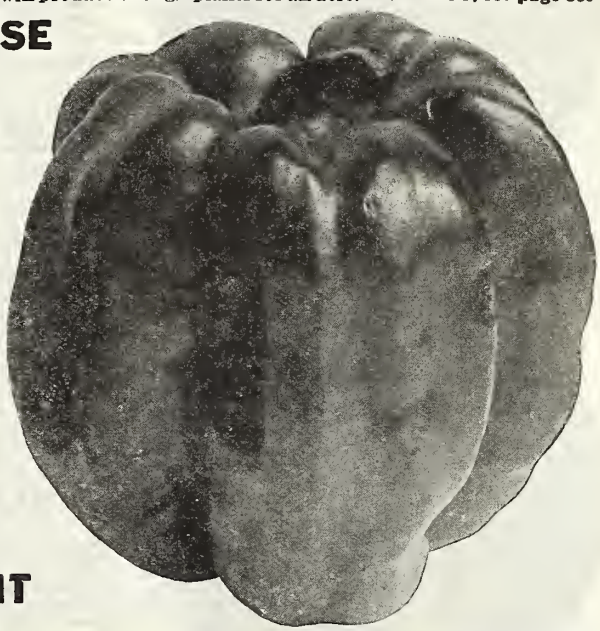
Pimiento **Pfeffer** **Piment**

CULTURE—For early market peppers, seed should be planted in hot beds during November and December, and when the plants are of proper size and the danger of frost is passed they should be planted in the open field or garden or the plants may be planted direct to the open ground before the frost period is over if they are given proper protection.

To harden off plants before setting out remove covering of hot bed during warmer part of the day, being sure to replace same as it starts to turn cool in the evening.

For main crop, plant in the hot bed during February, March and April; in later planting cold frames may be utilized. As pepper seed demands ideal conditions for growing, do not attempt to plant the seed in the open unless it be in the summer when the air and ground are warm. A loose sandy loam soil is best. One half pound of seed will produce enough plants for an acre. **PLANTS, see page 83.**

CHINESE



GIANT

BULL NOSE PEPPER

ANAHEIM CHILI PEPPER

Germain RECOMMENDS

CHINESE GIANT PEPPER. A pepper of exceptional merit. It is very mild in flavor and is an ideal variety for the home garden. Produces enormous peppers measuring as much as 5 inches broad at the top and of equal length. It is highly productive, plants being so thickly covered that they appear to bear in clusters. Its flesh is thick, solid but of, fine texture making the ideal stuffing pepper, for which purpose it is greatly and rightfully famed.

Price: Packet 5c; oz. 90c; ¼ lb. $3.00; 1 lb. $9.00.

	Pkt	Oz	¼lb	1 lb
ANAHEIM CHILI. (Chili Caliente). The country around Anaheim is the greatest pepper growing section in the world, the shipments running over 100 car loads a year. Our seed is selected from the finest and most productive fields in that vicinity and is certain to produce splendid crops. This pepper is from 6 to 8 inches long and tapers from 1½ to 2 inches in diameter at the top to a point. When dried it is a brilliant scarlet.	$ 05	$ 50	1 65	$5 00
BELL, OR BULL NOSE. Early, sweet and of good flavor	05	60	2 00	6 00
CAYENNE. Pods small, long and tapering; coral red when ripe, very hot and strong, best kind for seasoning pickles; the Cayenne Pepper of commerce	05	60	2 00	6 00
CHINESE GIANT PEPPER. See specialty above.				
LARGE SWEET MOUNTAIN. Large, excellent for mangoes	05	25	85	2 50
MEXICAN CHILI. The pepper that has made the tamales of Mexico famous is becoming very popular in the Southwest. Our seed is obtained directly from Mexico. It is a medium size, pear-shaped pepper, and turns bluish black when dried	05	40	1 25	4 00
PERFECTION PIMIENTO. See specialty page 9		60	2 00	6 00
RUBY KING. A large growing sweet pepper of the Neapolitan type; strong grower and prolific	10	80	2 65	8 00

Prices Subject to Change Without Notice.

SMALL SUGAR PUMPKIN

WINTER LUXURY PUMPKIN

PUMPKINS

Note—Prices listed are pstpoaid.

Calabasa **Kuebis** **Courge**

CULTURE—Pumpkins grow and thrive in most any soil. A well-drained soil subject to irrigation is best. Pumpkins like other vine crops, should be irrigated carefully, not allowing the water too close to the main stock. As the roots are long, irrigation can be made at the ends of the vine. When the fields are covered by vine, irrigate midway between the rows. Too much water is very detrimental to the vines. Plant hills 8 to 10 feet apart each way, placing 4 seeds to a hill and after established pull out all but the one healthiest plant. Use one pound of seed per acre.

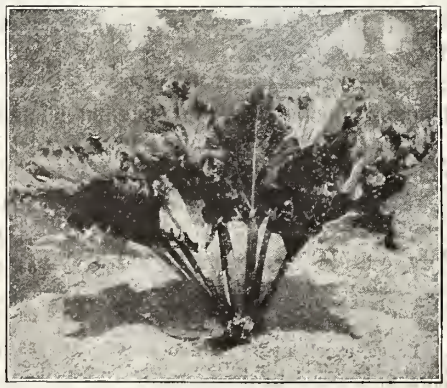
	Pkt	Oz.	¼ lb	1 lb
CALIFORNIA FIELD. Selected, very large, for stock	$ 05	$ 15	$ 50	$1 50
CHEESE. Size large; reddish orange; flesh thick, fine and sweet; keeps well	05	10	25	75
Germain **CONNECTICUT FIELD, OR JACK O'LANTERN.** A fine variety for dairy ranchers, adding much to the quality and quantity of the milk and butter; an excellent keeper and can be strongly recommended	05	10	25	85
CUSHAW, OR CROOK-NECK. Solid, fine, sweet; keeps well	05	10	35	1 00
EASTERN FIELD. A dandy for stock feeding	05	10	25	85
JAPANESE PIE. The flesh is nearly solid; the seed cavity being very small, fine grained, dry and sweet, having much the taste and appearance of sweet potatoes. They ripen early, keep well and are fine for home use	05	10	35	1 00
KENTUCKY FIELD PUMPKIN. A heavy fleshed and remarkably sweet pumpkin. A splendid keeper and a fine sort for family or market use. Its large size makes it desirable for stock also. Especially adapted to Southern California conditions.	05	10	25	75
LARGE SWEET FIELD. Popular among the local growers; size very large; hardy and productive	05	10	25	85
Germain **MAMMOTH KING or POTIRON.** The best large pumpkin in use. Forms immense globular melons, flattened a little at the end. Skin reddish yellow in color and flesh rich orange. This is unquestionably the very best mammoth pumpkin we have. It runs very uniform in shape and color and all are of immense size	05	15	50	1 50
Germain **MAMMOTH TOURS PUMPKIN.** This pumpkin should be called the Prizetaker on account of its immense size, fine color and thick flesh. It is not only a fine stock food, but its rich flavor makes it valuable for canning or home use. It is a rapid grower and often attains a weight of 150 pounds	05	15	50	1 50
QUAKER PIE. Nearly oval; color creamy white inside and out; flesh sweet and rich; good keeper	05	10	35	1 00
Germain **SWEET OR EARLY SUGAR.** This is the small sweet pumpkin that has made the New England States famous for their pumpkin pies. Fine-grained; splendid keeper.	05	10	35	1 00
TENNESSEE SWEET POTATO. A good variety for making pies and other cooking purposes. It is of medium size, of a white, creamy color, and has an excellent flavor; good keeper	05	10	40	1 25
Germain **WINTER LUXURY.** This variety well deserves its name when made into pies or baked in the oven, as it has both good flavor and rich color. Of medium size, it is a heavy cropper and well deserves a place in every garden	05	10	40	1 25

RHUBARB OR PIE PLANT

Ruibarbo **Rhabarber** **Rhubarbe**

CULTURE—Rhubarb seed requires considerable care and is discriminating as to where it grows. A rich light sandy loam is its delight and seed planted in this type of soil, about ¾ inches deep in rows which are 12 inches apart, in the early spring say February will be ready to transplant in from 4 to 6 months time. When they are as large as one's finger transplant the roots to mellow soil as described above, in rows 5 feet apart and about 3 feet apart in the row. The roots should be set in ridges with the crown even with the surface of the soil. The ground should be kept well cultivated and irrigated the first season and stalks may be pulled early the next spring.

RHUBARB ROOTS, see page 83.



Germain RECOMMENDS

WAGNER'S GIANT SEEDLING RHUBARB

It is grown from the seed of the famous Giant Rhubarb. Our seed was secured from Mr. J. B. Wagner, the originator and most prominent Rhubarb expert in the world, and is the best that can be gotten. Wagner's Seedling will yield as high as 20 tons per acre, is a strong rapid grower, and very much more productive than the Crimson Winter. It comes on soon after planting, and unless the ground is frozen it keeps on growing constantly. The stems are twice as large as the Crimson Winter, are hardy in any climate, and will grow and yield handsome returns where the common Crimson variety will be a failure. It is unsurpassed either in flavor, texture, size, or hardiness. Germain strongly recommends this variety as the most profitable that can be grown, and is proving itself a tremendous money maker. Price, packet 20 cents, ounce $1.20, ¼ pound $4.00, pound $12.00.

We especially call your attention to the roots of this variety, a description and prices of which will be found on page 83.

	Pkt	Oz.	¼ lb	1 lb
MONARCH, OR GIANT. Superior variety of large size	$ 05	$ 15	$ 50	$1 50
Germain **NEW CRIMSON WINTER.** Introduced by Luther Burbank, and so popular that it is almost impossible to supply demand. Is ever-bearing. Can be made to bear when there is no other rhubarb in the market	10	80	2 65	8 00

RADISHES

☛ **Note**—Prices listed are postpaid.

Rabano **Radies** **Radis**

CULTURE—Sow any month of the year; will succeed in any good garden soil not over-moist or too heavy. For early and late crops a warm, sheltered situation should be chosen; for those sown in summer, a rather shady spot must be selected. For a succession, sow every two weeks. The ground where the sowing is to be made should be dug deep and raked fine. The seed is generally sown thinly broadcast, in beds four to five feet wide, with one-foot alleys between. One ounce of seed will sow about 100 feet of drill, or a bed forty square ft.

HORSERADISH ROOTS, see page 83.

Germain RECOMMENDS **GERMAIN'S EPICURE RADISH**

Solely a relish, some radishes are often the very opposite on account of the large size and pithy texture, more resembling a turnip or large parsnip. Nothing more epicurean has ever been offered than this select strain of scarlet, white-tipped radish, which is one reason of its popularity among market gardeners. It is the quickest growing radish we know of, maturing in eighteen days. Firm, very mild in flavor and never pithy, it is truly a joy to the planter in every sense. Its dainty size, about that of a marble, and its beautiful coloring make it as pleasing to the eye as to the palate. Packet 10 cents, ounce 20 cents, ¼ pound 70 cents, pound $2.00.

GERMAIN'S EPICURE RADISH

	Pkt	Oz.	¼ lb	1 lb
BLACK SPANISH WINTER, LONG. Grows to a large size, of oblong shape; quite solid	05	15	50	1 50
Germain **BLACK SPANISH WINTER, ROUND.** Similar to the long, except in form	05	15	50	1 50
Germain **CALIFORNIA MAMMOTH WHITE.** A winter sort introduced into California by the Chinese; eight to twelve inches long and two inches in diameter, flesh white, firm and excellent flavor	05	15	55	1 75
CHARTIER. A long, smooth radish, red above and shading to clear white at the tip	05	15	50	1 50
Germain **CHINA ROSE WINTER.** Medium size, oblong, of a bright rose color; one of the best varieties for winter use	05	15	50	1 50
CRIMSON GIANT TURNIP. Twice as large as any other turnip-shape variety; does not get hollow or pithy; flesh white, solid, crisp and mild flavor. Excellent for forcing in open ground	05	15	50	1 50
Germain **EARLY LONG SCARLET SHORT TOP.** Without exception the best long bright scarlet radish, very brittle and sweet, matures in twenty-five to thirty days. Very attractive and adapted to the home or market garden	05	15	50	1 50
EPICURE. See specialty above.				
Germain **FRENCH BREAKFAST.** An early variety with good flavor and very pretty, being a light scarlet tipped with white. A favorite wherever known	05	15	55	1 75
JAPANESE SUMMER RADISH. Introduced by Japanese in Southern California some years ago, and has become a great favorite. Grows as long as twenty-four inches and three inches in diameter; very tender, mild and of excellent flavor; always finds a ready market	05	20	65	2 00
JAPANESE WINTER RADISH. Strongly resembling the Japanese Summer Radish, excepting in size; grows to eight or ten inches; an excellent winter variety, being crisp and of fine flavor; in color it is pure white, and is becoming very popular	05	20	65	2 00
Germain **LONG WHITE ICICLE.** A very popular long white radish. Very sweet, crisp, and tender all through its growth and reaching a length of six inches	05	15	55	1 75
MIXED RADISHES. Supply a nice assortment for the table; of all colors and sizes	05	15	50	1 50
MODEL WHITE BOX. A very early round white radish, crisp and sweet	05	15	50	1 50
Germain **SCARLET TURNIP.** The little red turnip shaped radish every one asks for, crisp, tender and of fine flavor. Very quick growing. Tests at our Trial Fields show that our stock of seed of this variety is very fine	05	15	55	1 75
SCARLET, OLIVE-SHAPED. Oval; very early and handsome; flesh rose-colored, tender and brittle	05	15	50	1 50
Germain **SCARLET TURNIP WHITE-TIPPED.** Turnip shaped, attractive in color, being scarlet and white. It is very quick to mature, being ready for table in twenty days. Excellent flavor, a great favorite with market or home gardeners	05	15	55	1 75

FRENCH BREAKAST RADISH

ROSELLE

☛ **Note**—Prices listed are postpaid.

The plants grow from 3 to 6 feet high and bear an abundance of handsome flowers, followed by fruit enclosed in a thick, fleshy calyx from which is made an excellent jelly resembling, but an improvement upon, that made by the black current; 10 cents a packet, 75 cents per ounce; ¼ pound $2.50; 1 pound $7.50.

SALSIFY OR VEGETABLE OYSTER

☛ **Note**—Prices listed are postpaid.

Salsifi Blanco **Haferwurzel** **Salsifis Blanc**

CULTURE—Sow in early spring, one inch deep, in drills one foot apart and thin young plants to three or four inches apart in the row. The soil should be deep and loose, and never allowed to get dry. General care same as for parsnips and carrots.

	Pkt	Oz.	¼ lb	1 lb
Germain **SANDWICH ISLAND SALSIFY.** An improved type and the largest and most delicious salsify in cultivation, with long white tapering roots. It is growing to favor rapidly with all who plant it, as it brings a large price in the market	05	30	1 00	3 00

HUBBARD SQUASH

WINTER CROOKNECK SQUASH

SQUASHES

Note—Prices listed are postpaid.

Calabasa **Kuerbiss** **Courge**

CULTURE—Sow after danger of frost is past. Light, warm soil is best. Plant in hills prepared the same as for pumpkins and melons, the bush kinds about four feet apart, and the running varieties from six to nine feet apart, according to their nature, as some will run more than others. Plant about one-half dozen seeds in each hill and thin to three best plants. The earth about the plants should be kept loose and clear from weeds until runners are well started. Cutting off the leading shoots of the running varieties is recommended as having a tendency to promote growth and early maturity of the fruit. One ounce of seed will plant from thirty to fifty hills.

SUMMER VARIETIES

	Pkt	Oz.	¼ lb	1 lb
Germain **DELICATA.** The earliest and most prolific of the vine squashes. Of small size, flesh wonderfully solid, with small seed cavity. Cooks dry and is richly flavored	$ 05	$ 15	$ 50	$1 50
EARLY GOLDEN BUSH SCALLOPED. Similar in shape to the white	05	10	35	1 00
Germain **EARLY WHITE BUSH SCALLOPED.** An early variety, well-flavored, productive; excellent for market	05	10	35	1 00
ITALIAN SQUASH is a bush variety and should be planted five feet apart. It should be used when quite young. When stewed it has a rich, creamy flavor not equalled by another squash. Some gardeners have made considerable money making a specialty of it. For the family garden we would recommend its use instead of the small white bush scallop, because of the excellent flavor and it is much more prolific	05	15	40	1 25
LONG ISLAND WHITE BUSH. An improved strain of Early White Scallop Bush; very prolific	05	10	35	1 00
LONG WHITE VEGETABLE MARROW. An English variety of delicious flavor	05	10	35	1 00
SUMMER CROOK-NECK. This is the richest summer squash; very early and productive	05	10	40	1 25

WINTER VARIETIES

	Pkt	Oz.	¼ lb	1 lb
BOSTON MARROW SQUASH. This is a very populars quash for fall and winter use. In color it is a bright orange. Flesh yellow, rich and sweet	05	10	35	1 00
Germain **DELICIOUS.** A very fine flavored squash, excelling the Hubbard for table use. Good for fall or winter and keeping till late in spring. The rind is dark green, mottled in lighter shade. The flesh is thick and dark orange in color	05	15	50	1 50
ESSEX HYBRID. An early and rapid growing variety, with thick, rich colored solid flesh, and one of the best keepers	05	10	35	1 00
FORDHOOK. One of the best of the late summer varieties, and will keep till the following May if stored in a cool dry place. Thick skin of a bright yellow color, heavy meat that can be used at any stage of growth	05	15	50	1 50
Germain **HUBBARD.** Best winter variety, vigorous, productive. Fruit large, weighty, moderately warted, hard shell; color dark bronze green. A fine grained, thick, dry, richly flavored, orange-yellow flesh. Baked, it is similar to and as luscious as a sweet potato. We have spent a great deal of time and attention in selecting our stock and confidently recommend it	05	10	40	1 25
Germain **MAMMOTH CHILI.** Grows to immense size, often weighing over 200 pounds; very productive	05	15	50	1 .50
Germain **PIKES PEAK or SIBLEY.** A new, old variety that deserves all the good things that are said about it. It is preferred to any other by those who know it. Similar to the Hubbard, but a great improvement on it	05	10	40	1 25
RED OR GOLDEN HUBBARD. Similar to the Green Hubbard, except in color, which is a bright, deep orange. Flesh deep, golden yellow, fine grained, cooks dry, and is of excellent flavor	05	10	40	1 25
WINTER CROOK NECK. A good fall variety; flesh close-grained and sweet	05	10	40	1 25

SORREL

Note—Prices listed are postpaid.

Acedera **Sauerampfer** **Oseille**

CULTURE—Sow any time in deep, moist soil, even sour soils are preferable to what is considered good garden loam. Used same as spinach.

	Pkt	Oz.	¼lb	1 lb
Germain **LARGE-LEAVED FRENCH.** Used for salads, and highly recommended when cooked like spinach	05	15	40	1 25

SPINACH

Note—Prices listed are postpaid.

Espinaca **Spinat** **Epinard**

CULTURE—An all-year crop. Sow early in spring, in drills one foot apart, and thin the plants as you need them for cooking. For winter and spring use, sow in September. One ounce of seed will sow about seventy-five feet of row.

	Pkt	Oz.	¼ lb	1 lb
BLOOMSDALE, or SAVOY-LEAVED SPINACH. A favorite with market gardeners. It has thick, dark green wrinkled leaves and is very hardy. The earliest variety and one of the best for autumn use	05	20	75	2 25
Germain **LONG STANDING.** Leaves large, thick and crimped with a fleshy appearance. Hardy and adapted to either fall or spring sowing. Slow to seed, hence the name	05	20	75	2 25
NEW ZEALAND. Abundant producer throughout the summer; transplant three feet apart each way	05	20	75	2 25
Germain **BROADLEAF PRICKLY.** A splendid fall or winter sort, also does well planted in the spring. Quick growing with large dark green leaves	05	20	75	2 25
JAPANESE PRICKLY SPINACH. Not so broad a leaf as the Broadleaf Prickly, but a good winter spinach and worth the money	05	10	20	60
ROUND or SUMMER. A very hardy round, thick leaved variety adapted to early spring sowing. Matures quickly, very tender and fine flavored	05	20	75	2 25

TURNIPS

Note—Prices listed are postpaid.

Nabo **Ruebe** **Navet**

CULTURE—Sow during cool weather, from October to April. For early crops, sow the Early White Flat Dutch or Early Purple Top Milan during early winter; and for summer crops sow any of the other varieties at intervals of two weeks, in drills twelve inches apart; cover the seed lightly unless the season be very dry; thin out the plants to six or eight inches apart. For Fall or Winter use, sow the Golden Ball or Purple Top Strap Leaf. Success depends upon the selection of soil and its subsequent preparation. Stir deeply.

SNOWBALL TURNIP

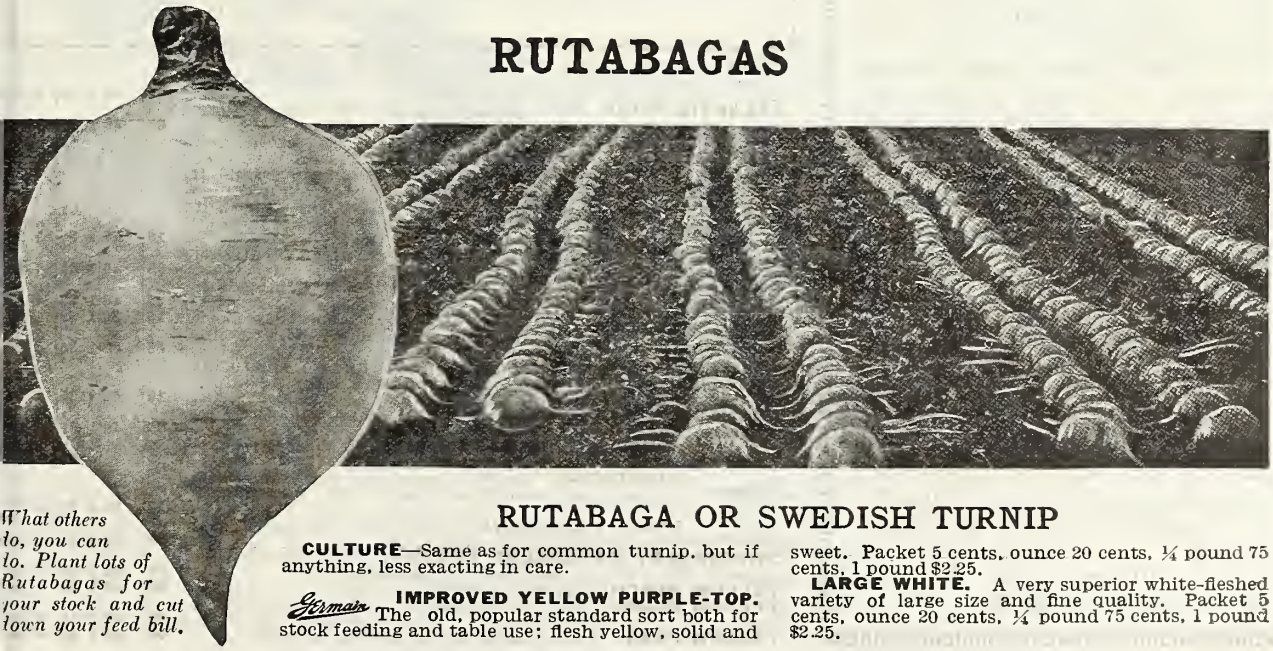
Germain RECOMMENDS

EXTRA EARLY PURPLETOP MILAN TURNIP

This choice variety is not only a beautiful and unusually delicious vegetable, but pleases the grower by maturing a week earlier than the earliest of other sorts. It is of medium size, flat and thick, with a smooth, bright purple top, snow white flesh, and little given to leaves. It accommodates itself to either spring or fall maturity, and is a delight to those who appreciate the food value and fine flavor of a good turnip. A heavy cropper, it deserves the greatest favor from the market gardener, and is surely a top notcher for the home garden. Packet, 5 cents; ounce, 25 cents; one-fourth pound, 85 cents; one pound, $2.00.

	Pkt	Oz.	¼ lb	1 lb
COW HORN. This variety is pure white; in shape like a carrot, growing nearly half out of the ground, and slightly crooked. It is delicate and well flavored. Used also as a green manuring crop	$ 05	$ 15	$ 55	$1 75
EARLY PURPLE-TOP MILAN. See Specialty above				
EARLY WHITE EGG. An egg-shaped variety for spring and fall sowing; flesh firm, fine-grained, mild and sweet	05	15	55	1 75
Germain **EARLY WHITE FLAT DUTCH.** White flesh, medium size, quick growth	05	15	55	1 75
Germain **RED TOP WHITE GLOBE.** One of the handsomest and most salable turnips. Equally good for home or market. It is a large, rapid growing sort, flesh pure white and the best flavor of any turnip grown. The skin is white with red top. We have taken great care with this stock, and offer it with confidence that our friends will be fully satisfied	05	25	85	2 50
GOLDEN BALL. Round, smooth English turnip of fine quality; skibright yellow; good keeper	05	20	65	2 00
PURPLE-TOP STRAP-LEAF. Very productive, matures quickly; flesh white and sweet	05	15	55	1 75
Germain **EARLY SNOWBALL.** Some people may think that a turnip is a turnip, not realizing the great difference between the average stringy, pulpy vegetable and the sweet, mellow, crisp possibilities that have been achieved in the perfection of the Snowball. It was first introduced into this section by us several years ago, and our supply of seed this season is so unusually fine that we are strongly recommending it. Germain's Snowball will respond to any reasonable desire for early maturity; grows even in size and is most completely described by its name—pure white and round as a ball	05	20	65	2 00
WHITE GLOBE. This turnip in rich ground grows to a large size of the same shape as the Redtop White Globe but much larger, attaining a weight of five and six pounds. Skin and flesh pure white; matures quickly	05	20	65	2 00

RUTABAGAS



What others do, you can do. Plant lots of Rutabagas for your stock and cut down your feed bill.

RUTABAGA OR SWEDISH TURNIP

CULTURE—Same as for common turnip, but if anything, less exacting in care.

Germain **IMPROVED YELLOW PURPLE-TOP.** The old, popular standard sort both for stock feeding and table use; flesh yellow, solid and sweet. Packet 5 cents, ounce 20 cents, ¼ pound 75 cents, 1 pound $2.25.

LARGE WHITE. A very superior white-fleshed variety of large size and fine quality. Packet 5 cents, ounce 20 cents, ¼ pound 75 cents, 1 pound $2.25.

Germain RECOMMENDS

GERMAIN'S WINTER QUEEN TOMATO

It is our business to find the best of everything for our customers. It is a policy that has made us hosts of friends and built up a big seed and plant house. One of our hobbies for years has been the tomato, and we have left no stone unturned in the development of this strain of Winter Queen to the high state of perfection which it now occupies. The past season we conducted an interesting test of this seed, with six other varieties, at our trial grounds. In point of earliness our strain of Winter Queen matured in from ten days to two weeks before any of the others, not excepting the Earliana. Its compact bush was in striking contrast to the sprawling habit of other varieties in the field—an appealing feature to the market gardener. It is a generous producer of even sized, finely colored fruit of remarkably firm flesh, which makes it a prime favorite with the shipper. Another strong quality of Germain's Winter Queen is its hardiness, as it has been known to come through a frosty period in full vigor, where other varieties were entirely killed.

Packet 5c., ounce 50c., ¼ pound $1.65, pound $5.00.

Fine, hardy plants of Germain's Winter Queen, 20 cents per dozen, $1.50 per hundred, $8.50 per thousand.

Germain RECOMMENDS

GERMAIN'S FIRST EARLY TOMATO

The early tomato is the one that gets the big money, but earliness alone will not do it. Quality, including size, smoothness, firmness, flavor and coloring, are all considered; and tomatoes of this type find a ready market even when prices are highest.

Germain's First Early Tomato embodies all these requirements and has found a warm spot in the energetic and prosperous growers' heart.

For home gardening it is equally as valuable, for it requires no more care than other varieties and comes into maturity earlier.

While not materially earlier than our strains of Earliana and Winter Queen, it has the distinct advantage of being much smoother. In fact, it is entirely smooth.

Running strong to foliage, it affords the fruit more protection than any other variety. Hence it is as hardy a tomato as can be found.

Pkt., 10 cents; oz., 60 cents; ¼ lb., $2.00; lb., $6.00.

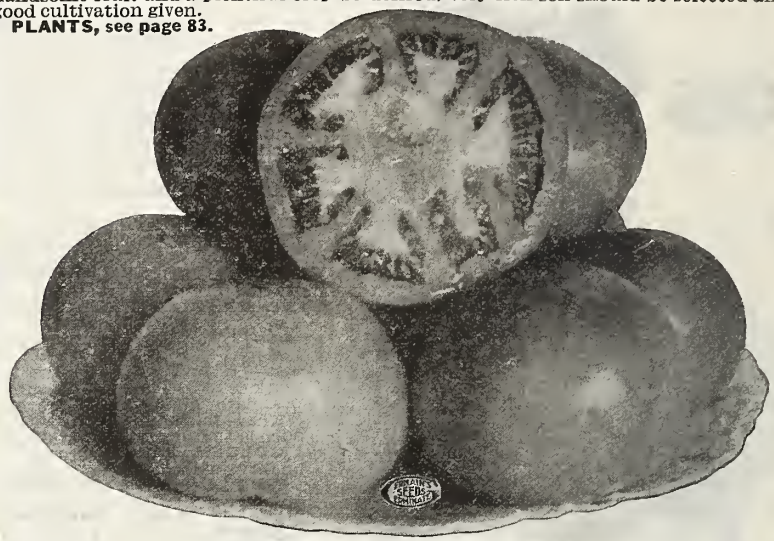
TOMATOES

Note—Prices listed are postpaid.

Tomate Liebesapfel Tomate

CULTURE—Sow in hot bed or frame, about September 1, for winter crop in frostless belts, or in early spring for summer crop. Growth must never be checked or a shortened fruit crop will result. When the plants are two or three inches high, thin them out and set in pots or in another bed, to give them room and make them "stocky." When five or six inches high, if the weather be warm and settled, transplant them to open ground, selecting a rainy day if possible; in the absence of rain, water and protect till well rooted. Set plants four feet apart each way. One ounce of seed will produce 3000 plants. The tomato requires a rather light soil to ripen early, but if handsome fruit and a plentiful crop be desired, very rich soil should be selected and good cultivation given.

PLANTS, see page 83.



GERMAIN'S WINTER QUEEN TOMATO

Kingsbaker Bros. Praise Germain's New Stone Tomato

Gentlemen:

"Our greatest trouble, in the past, with tomatoes, has been so much rough, misshapen fruit and not until we bought Germain's New Stone tomato seed did we overcome this. We had a great many carloads of New Stone tomatoes come in this year, grown from your seed; and they were certainly wonders—smooth, medium-sized fruit that it was a pleasure to handle. You sure have the right strain of New Stone Tomato."

KINGSBAKER BROS., Los Angeles.

	Pkt	Oz.	¼ lb	1 lb
ACME. One of the earliest and handsomest varieties. Fruit of medium size, perfectly smooth and regular in shape; a great bearer; color dark red with a purplish tint	05	40	1 35	4 00
ATLANTIC PRIZE (Early Ruby). A favorite early variety, four or five; color glossy crimson with a purplish tinge	05	40	1 35	4 00
Germain **BEEFSTEAK.** This variety has been exceedingly popular with our customers and our sales have been enormous. It is one of the best, if not the best tomato grown. It is very prolific and its growth is a marvel. For the home garden it cannot be surpassed. Of a bright red color, with very firm, substantial meat and luscious flavor. We take pleasure in again presenting this favorite to our customers	10	55	1 85	5 50
Germain **CHALK'S EARLY JEWEL.** Nearly as early as Earliana. Fruits are large and of fine flavor	05	40	1 35	4 00
DWARF CHAMPION. An early and distinct variety, medium in size; plant of dwarf and compact growth	05	40	1 35	4 00
Germain **GERMAIN'S WINTER QUEEN.** See specialty above.	10	50	1 65	5 00
Germain **GOLDEN QUEEN.** The best yellow. Has a fine appearance and a distinct flavor	05	40	1 35	4 00
JUNE PINK. A smooth purple-fruited tomato, maturing early, resembling the Earliana in shape and size, differing only in color. Large size, early	10	40	1 35	4 00
LIVINGSTON'S FAVORITE. Beautiful shape, smooth and a good bearer; ripens evenly	05	40	1 35	4 00
Germain **GERMAIN'S NEW STONE.** See specialty page opposite.				
Germain **PONDEROSA.** Grows to enormous size, sometimes weighing from two to three pounds each; very smooth and solid	10	55	1 85	5 50
Germain **SPARK'S EARLIANA.** Early and prolific; very solid and noted as a good shipper	05	40	1 35	4 00
STRAWBERRY OR GROUND CHERRY. A distinct species; grows enclosed in a husk; excellent for preserves	05	40	1 35	4 00
YELLOW PEACH. Beautiful clear yellow color	05	40	1 35	4 00
YELLOW PLUM. Fruit plum-shaped, of clear, deep yellow color	05	40	1 35	4 00
YELLOW PEAR. A small early variety good for preserves	05	40	1 35	4 00

INTERESTING SIGHT

This summer when tomato fields were in full bearing the writer spent considerable time in various comparisons of both the fruit and vine habits of the tomato.

Our fields were bearing about eighty different varieties including such interesting specialties as the Ground Cherry, Yellow Peach, Red and Yellow Plum, etc. It was indeed all engrossing to examine carefully each different type.

I devoted much attention to the shipping and canning varieties, of which we had Many Fold. Greater Baltimore, and others in competetive growth with Germains's New Stone. Let me say that other varieties may come and go but the Germain New Stone is here for always. Its superiority to its competitors is so clearly demonstrated in every requirement of the tomato that there is no comparison. But to get back to my point, the sight of eighty different varieties of tomatoes unfolding over acre after acre, carefully cultivated and cared for is most inspiring.

Germain's New Stone Tomato

A GROUP OF NEW STONE TOMATOES

Our strain of this good old variety is recognized as the greatest shipping, canning and home garden type ever introduced. On account of firm flesh, desirable size and well established character for acclimation, it is considered the finest strain grown in California. Market gardeners have grown to thoroughly depend upon its uniformity and proclaim it the greatest of all canning or market tomatoes.

Our strain New Stone Tomato seed is gathered only from selected stock which has been grown exclusively for seed purposes.

We do not attempt to use the pulp for any other purpose than to obtain our seed from it, and as a result we have been able to increase the splendid quality of our New Stone Tomato seed.

By selecting perfect specimen tomatoes from our field, we are certain to maintain a true type, symmetrical fruit, healthy plants, and above all, prolificness.

One of the largest tomato growers in the south when recently interviewed by our agriculturist, said:

"I have grown practically every leading tomato. I have watched closely their characteristics, type, uniformity and general desirability as an all-round variety, but after all of this close study under the many varying climatic conditions there is but one class that stands out predominantly and maintains a thorough trueness of type, and that is the New Stone Tomato. It is undoubtedly the finest strain ever introduced and has met all competing varieties and still stands superior. It is a very heavy bearer."

Germain's New Stone Tomato is a beautiful bright red, of large uniform size and with very few seeds. All farmers demand it because of its extremely firm meat and because of its assured tonnage. It is a thoroughly dependable, proven tomato, as it may be planted from the earliest spring month when danger of frost is past, and will bear right up to the first frost in the fall.

The desirability of this tomato is greatly enhanced by its extreme smoothness and its hardiness. The one great requisite in a vegetable for private use is quality—first and always. The prime essentials are good flavor, the minimum of acidity, a tender skin, solid meat and flesh, few seeds and very little juicy pulp. Germain's New Stone Tomato meets all these requirements. It ripens evenly and in point of cost and labor in harvesting the chances of loss are minimized. It has been grown in every section of the United States and always comes up to the quality expectations.

Price, Packet 5c; Ounce 40c; ¼ pound $1.35; Pound $4.00.

MANGEL AND SUGAR BEETS

Note.—Prices on half pound and pound quantities include postage or expressage prepaid. When sent otherwise deduct 10 cents per pound or fraction thereof. Prices listed for larger quantities, if desired sent by Parcel Post, necessary postage should be added. See our Parcel Post Schedule on Page 1. **If quantities are desired, do not fail to write for samples and special prices, as all field seeds are subject to market fluctuations.**

A SUGGESTION WORTH CONSIDERING

We feel that a special suggestion should be given our customers regarding the growing of Mangels. There is an enormous quantity of what is commonly termed Beet Pulp (left after taking the sugar out of the Sugar Beets) sold every year. Why pay $20.00 to $25.00 per ton for this feed when you can set aside a little acreage of your own and grow stock beets which are far more valuable for feeding, as they contain all the natural elements which go toward making beets a valuable stock food. One acre will produce from twenty to twenty-five tons of feed. Where the seed is properly seeded, cultivated and harvested, they should be grown on a basis of 15 cents per hundred pounds. It has been demonstrated that where they are fed in conjunction with grain, they are worth nearly as much, pound for pound, as the grain itself. This statement may seem a little strong, but experience has shown that mangles aid digestion and assimilation, by keeping the animals in extra good condition; by feeding them the same in conjunction with grains, it increases the feeding value of other feeds.

On account of the high price of grains this year, don't you think it is worth while to try this out? It is not an experiment. It is being done throughout the eastern States, and in Canada, Germany, England, Russia and France, is the main source of food. It seems to us that it is high time for the American farmer to cut down the cost of his feed bill, and we would suggest his growing stock beets.

A Giant Half Sugar Mangel Reduced from Actual Photograph.

If there is any special information that you desire, let us know, as we are only too glad at all times to give special information.

GOLDEN TANKARD STOCK BEET

Imported Seed

This splendid Mangel Wurzel is a prime favorite among the dairymen. The color is a deep, rich yellow, the flesh is firm, solid, of a sweet flavor—just the root for your milch cows. Here is a stock beet that will "flesh up" the cow, increase her milk flow, and add to its quality. Knowing the great value of this particular variety of beet, we have imported the finest strain of seed and are ready to meet the heavy demands of the ranchman. If you are a stockman or a dairyman do not miss this opportunity to cut your feed bills. Give your stock one-half dry feed and one half Golden tankard stock beets, and watch them thrive and grow. Packet 5 cents; 1 pound $1.00; 10 pounds $8.50.

Write for special pamphlet on growing Stock and Sugar Beets.

MANGEL OR STOCK BEETS

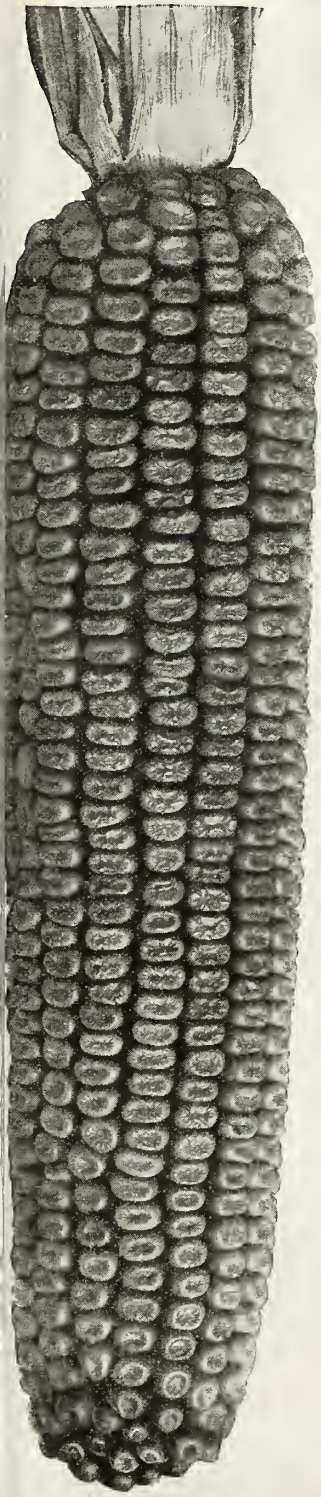
Germain **GIANT HALF SUGAR MANGEL.** A distinct type of beet, producing roots of enormous size of the highest feeding value. It is a cross between a mangel and sugar beet; globe shaped. Packet 5 cents. 1 pound $1.00, 10 pounds $8.50.

Germain **IMPROVED MAMMOTH LONG RED.** Our stock is a great improvement on the old variety. The roots are very large, uniformly straight and well formed; color deep red; roots solid, tops small; produce an immense bulk and tonnage. Packet 5 cents, 1 pound $1.00, 10 pounds $8.50.

SUGAR BEETS

KLEIN WANZLEBEN. This splended sugar beet is one of the greatest milk producing roots known; in shape conical, straight and even, large at the head and rapidly tapering. Every stock raiser should plant this fine sort. Packet 5 cents, 1 pound $1.00, 10 pounds $8.50.

CORN



IMPROVED LEAMING CORN

Note—Prices on half pound and pound quantities include postage or expressage prepaid. When sent otherwise, deduct 10 cents per pound or fraction thereof. Prices listed for larger quantities, if desired sent by Parcel Post, necessary postage should be added. See our Parcel Post Schedule on Page 1. **If quantities are desired, do not fail to write for samples and special prices, as all field seeds are subject to market fluctuations.**

FIELD CORN

OTHERS SUCCEED, SO CAN YOU.

Corn is more extensively grown in the United States than any other grain, the acreage being about double and the product four times greater than wheat.

California ships in more corn than it produces, thousands of cars are shipped in to us from the middle west every year. Why send your money East for this product when it can be grown so successfully here?

CULTURE. Good crops can be obtained on a variety of soils varying from the lighter sandy loams to heavy clay. When a choice can be had a warm, porous, well drained loam should be chosen. Thin soil should be plowed shallow. On good soils depth of plowing seems to have little influence on the crop, plowing 5 to 7 inches deep is usual and is recommended.

Sub-soiling for corn is not a profitable practice. Corn should be cultivated about once every week or ten days, especially after every rain or irrigation. Begin soon after the seed is sown and continue to cultivate until the stalks are nearly as high as a man's head. The essential thing in corn cultivation is to keep the ground free from weeds and covered with a soil mulch. Remember that shallow cultivation should be practiced.

The time of planting corn, with us, should be immediately after danger of frost is over and the earlier thereafter the better.

From 2 to 3 inches is considered the best depth to plant corn. It should be planted in rows 3 to 4 feet apart with the seed from 9 to 16 inches apart in the rows depending on the variety.

GROWING CORN FOR THE SILO

In a recent tour of California we noticed the extensive use of the silo. Increased dairying has demanded them and if you do not have one write us and we will see that you get the necessary information for the construction of one. The growing of corn for the silo is somewhat different from ordinary field culture and the cultural suggestions below will help you.

CULTURE. Generally speaking the seed should be sown in drills 3½ feet apart using 15 to 30 pounds of seed per acre, the amount planted depending upon the purpose for which the silage is to be used.

Whenever less grain and more bulk is desired, more seed may be planted to the acre, giving a greater amount of leaf and stalk but less ear corn. For fattening beef cattle the opposite is true; the more ears produced the greater the fattening properties, and for that reason less seed should be sown per acre, giving it a better opportunity to mature. In either case the tonnage per acre will be the same. In the one case there will be more leaf and stalk and less ears and in the other instance the opposite, less stalk and leaf but more grain.

Also by the use of these varieties, if the grower wishes it may be cut at an early stage of its growth and used as fodder. Later it may be put in the silo in any desired stage and if the season promises to be long enough it may be allowed to ripen for grain if this be decided upon.

READ THIS—IMPORTANT

Our seed corn crops are reported short this year (due to exceedingly detrimental climatic conditions in growing sections) and because of this fact it may be possible that when you send in an order for any variety of corn listed here, we may be sold out. If such should happen to be the case we will ship to you another variety of fully equal value in every respect and notify you. If upon receipt of same, it is not satisfactory to you, you may return ti and we will refund the purchase price.

CORN—FIELD

Germain **CHAMPION WHITE PEARL.** This stalk is short and thick. The ear grows low on the stalk, from seven to twelve inches in length, almost parallel throughout, of medium size, averaging sixteen rows of grain. 1 pound 20 cents, 10 pounds $1.25.

Germain **EARLY MASTODON.** The largest yellow corn grown. It has been known to yield over 200 bushels to the acre. The ears are even is size, cob small, with deep yellow grains. A vigorous grower and sure to give satisfaction; 1 pound 20 cents, 10 pounds $1.25.

Germain **HICKORY KING.** This corn is entirely distinct from all other varieties, having the largest grain with the smallest cob ever introduced in a white corn; 1 pound 20 cents, 10 pounds $1.10.

IOWA GOLD MINE. 1 pound 20 cents; 10 pounds $1.25.
IOWA SILVER MINE. 1 pound 20 cents, 10 pounds $1.25.
KING OF THE EARLIES. 1 pound 20 cents; 10 pounds $1.15.
KING PHILIP; 1 pound 20 cents, 10 pounds $1.15.
MEXICAN JUNE CORN. Very early and hardy, stalks grow to an average height of 7 or 8 feet and produces 30 to 60 bushels of corn per acre. 1 pound 20 cents, 10 pounds $1.25.
WISCONSIN WHITE DENT; 1 pound 20 cents, 10 pounds $1.25.

CORN—ENSILAGE

EUREKA ENSILAGE CORN. Ideal for silage purposes. Grows an average height of 14 feet, each stalk bearing one to three ears. Yields as high as 31 tons of fodder per acre. Plant 18 pounds seed per acre for ensilage. 1 pound 20 cents, 10 pounds $1.25.

RED COB ENSILAGE. A pure white corn on a red cob. Sweet, tender, juicy, has short joints and produces abundant foliage. Every dairy farmer should grow this sort; produces large crops; Packet 5 cents, 1 pound 20 cents, 10 pounds $1.25.

SWEET CORN—See pages 16 and 17.

CORN—POP

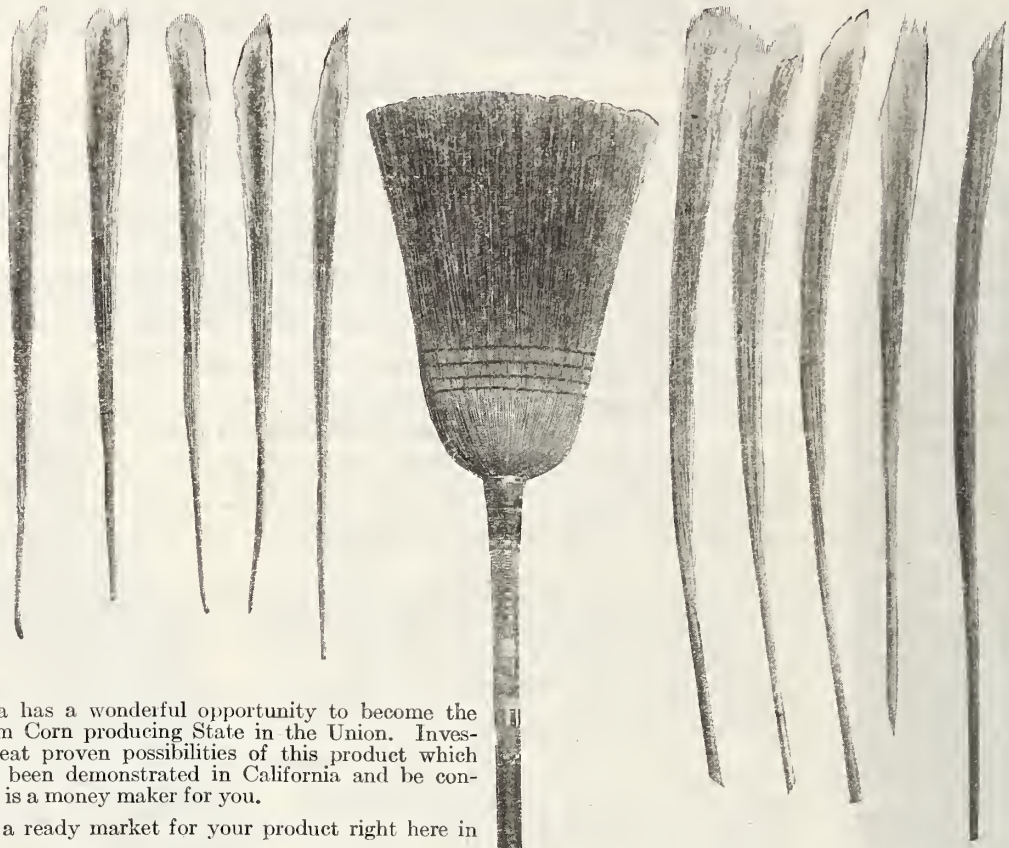
CULTURE—Required same care and culture as a sweet corn.

QUEEN'S GOLDEN. A large-eared and handsome yellow popcorn; grains are large, pop perfectly white and are exceedingly tender. About six feet high, and yield three or four ears to the stalk; 1 pound 25 cents, 10 pounds $1.50.

Germain **WHITE RICE.** A popular and productive variety. The kernels are fine, white, and the ears are from four to five inches in length and from one to one and a quarter in diameter; 1 pound 25 cents, 10 pounds $1.50.

Catalogue price subject to change without notice.

BROOM CORN



STERLING DWARF BROOM CORN
The picture just on the right shows perfect specimens of the Sterling Dwarf Broom Corn fibre. This is a shorter, finer fibre and is used for the inside or filling of the broom.

STANDARD (TALL) BROOM CORN
The picture just on the left shows specimens of the Standard (Tall) Broom Corn. This straw is generally used by broom manufacturers as the outside part of the broom.

California has a wonderful opportunity to become the leading Broom Corn producing State in the Union. Investigate the great proven possibilities of this product which have already been demonstrated in California and be convinced that it is a money maker for you.

There is a ready market for your product right here in Los Angeles.

Thousands upon thousands of brooms are manufactured right here in this city. Today the Los Angeles manufacturer is compelled to import his raw product from Texas paying enormous freight rates so why not take advantage of this opportunity by growing this extremely valuable crop. It takes no greater care than a crop of Milo or any other sorghum and with the proper care a crop is practically sure.

Crops this year brought all the way from $100.00 to $175.00 per acre depending upon the quality of broom stalks produced.

CULTURE. A thoroughly prepared seed bed is very essential. The soil should be in a moist condition at the time of planting. Drill the seed in rows 30 to 60 inches apart at the rate of 6 to 8 pounds of seed per acre. This will allow planting on an average of about 80 to 85 seeds per rod, which when up to 4 or 6 inches thin out so that they stand three to four inches in the row.

When it first germinates the plant is slow in growing, therefore frequent shallow cultivation is necessary to keep the weeds from out growing and smothering it. It is necessary at all times to see that the plant is in good growing condition, in other words it must be kept healthy and growing at all times, this is done by either irrigation and if water is scarce by continual shallow cultivation. The cultivation must continue otherwise the broom* will become kinky. (*fibre)

Harvesting should begin when the seed is in the bloom. a small flower appears and will begin falling off which signifies the time at which to cut the corn. If you are growing the Standard variety the stalks should be broken down to within about three feet of the ground. Break two rows at a time bending them diagonally towards each other in such a manner that the bent parts support one another in a nearly horizontal position. The cross stalks form a kind of platform or table on which the heads with about 6 inches of the stalk attached are laid after being cut. The heads should be left on the tables a day or two to dry out. After having been left in the sun the specified length of time they should be taken to a shed and laid in thin layers so as not to discolor the broom fibre on account of heat or moisture.

The seed can be easily removed from the heads by holding the brush between revolving cylinders like those used in a threshing machine.

The above directions refer to the Standard variety.

The Dward Variety grows shorter and does not require cutting. To harvest it take hold of the top of spear of corn with one hand and the husk below with the other and give a quick jerk, the spear of corn will break off at the joint; it must then be taken to the shed and piled in thin layers where it can get good ventilation. Great care should be taked that the sun rays do not reach it after it has been harvested.

After it is well cured the seed should be removed and the product bailed.

Price:	Sterling Dwarf	$12.00 per 100 lbs.
	Standard (Tall).....	12.00 " " "

If further cultural directions and data are desired write to the Department of Agriculture, Washington, D. C. and ask for the Farmers Bulletin on growing Broom Corn.

CLOVER SEEDS

(QUANTITY PRICES AND SAMPLES ON REQUEST)

Note—Prices on half pound and pound quantities, include postage or expressage prepaid. When sent otherwise, deduct 10 cents per pound or fraction thereof. Prices listed for larger quantities, if desired sent by Parcel Post, necessary postage should be added. See our Parcel Post Schedule on Page 1.

INCREASE YOUR TONNAGE. Expense, time and labor is the same whether your crop be large or small. At a cost of only $2.00 per acre you can get a fifty per cent. larger tonnage (in clover crops) by inoculating your seed, which we strongly advise. For particulars, see page 43.

ALSIKE (Trifolium hybridum). Very hardy, resisting cold and drought and is also will adapted for sowing on cold wet land. It yields a large amount of hay or pasture and makes a good bee plant; 45 cents per pound, 10 lbs. $3.00.

BURR CLOVER. Strongly resembling alfalfa. It is a great nitrogen-gatherer. Orchardists regard it with great favor as a green fertilizer, thriving in shady places where peas fail. Hulled, solid seed, free from burr. Fifteen pounds per acre; 35 cents per pound, 10 pounds $2.00.

ITALIAN CRIMSON, OR SCARLET (Trifoliumincarnatum). Used chiefly as a soil improver; 45 cents per pound, 10 lbs. $3.00.

JAPANESE (Lespedeza striata). Makes a fine pasture plant for barren land, where it will grow eighteen inches high; on good soil it grows thirty inches. Stock of all kinds relish it. 50 cents per pound.

MAMMOTH RED, OR COW GRASS (Trifolium pratense perenne). Very vigorous grower. 40 cents per pound.

MELILOTUS INDICA (Sweet Clover). A strong growing plant of the Clover Family, especially recommended for Cover Crop purposes. Write for our pamphlet entitled, "COVER CROPS". It tells you all about it. It is mailed free on request. Price per pound 35 cents. Special price given in quantity lots. Write for sample and prices.

MELILOTUS ALBA. Grows from 6 to 8 feet high, covered with small white flowers of great fragrance. Very valuable for bee pasture. Sowed 10 pounds to the acre. Price 50 cents per pound.

RED CLOVER (Trifolium pratense). Should be in all pasture mixtures; 50 cents per pound.

WHITE CLOVER (Trifolium repens). See page 53. Pound 80 cents, 10 pounds 65 cents per pound.

A COVER CROP OF MELILOTUS. Note the Heavy Growth.

COVER CROP SEEDS

We are headquarters for Cover Crop Seeds. We are continually carrying on experiments at our Trial Grounds on practically all varieties of Cover Crop Seeds that we list and are in a position to give you special information on them. We have always felt that in order to get satisfactory results from the use of Cover Crops that our customers should plant the right varieties for their conditions, and taking this as a basis, we have studied the varieties we offer very carefully and are in a position to give our friends information covering them.

There are three seasons when cover crops should be planted SPRING, SUMMER and FALL.

FOR FALL PLANTING. The past season has shown wonderful success with "Melilotus Indica" (Yellow Blossom Sweet Clover) as a cover crop. Its rank growth, deep rooting system, and hardiness, have made it a favorite with every citrus fruit grower. We are particularly fortunate in being able to secure a splendid quality of Melilotus and for 1916 will offer superior seed in every respect. Other carefully selected cover crop seeds for fall sowing are VETCHES, FENUGREEK, FIELD PEAS, BROAD WINDSOR BEANS and RYE. Our pamphlet on "COVER CROPS" gives complete planting and cultural directions.

FOR SPRING AND SUMMER PLANTING we especially recommend "Melilotus Alba" (White Blossom Sweet Clover), COW PEAS and SOY BEANS. The picture above shows the heavy growth made by the Melilotus Alba. It produces a big tonnage of humus material, breaks up the subsoil, and is one of the finest soil conditioners we have. You can make your grove pay big profits if you grow a summer cover crop of MELILOTUS ALBA, COW PEAS or SOY BEANS, etc. It is impossible for us to give you prices on the above mentioned commodities, owing to the fact that the market on same is continually fluctuating, but shall be very pleased to quote you prices on request. Don't fail to send for our pamphlet entitled "COVER CROPS". It is free for the asking.

FARMOGERM. When writing for our booklet on "COVER CROPS", ask us for our booklet on "FARMOGERM". This will tell you how to increase the usefulness of your "Cover Crop" and decrease your fertilizing cost. Send for it and it will tell you how to "FERTILIZE" WITH "AIR". Also see page 43.

ALFALFA (*Lucerne*)

Note.—Prices on half pound and pound quantities include postage or express prepaid. When sent otherwise, deduct 10 cents per pound or fraction thereof. Prices listed for larger quantities if desired sent by Parcel Post, necessary postage should be added. See our Parcel Post schedule on Page 1. If quantities are desired, do not fail to write for samples and special prices, as all field seeds are subject to market fluctuations.

Germain's Hairy Peruvian

Produces 2 1-2 tons more hay to the acre

This is the plant that has created a big sensation among alfalfa growers.
Germain's Hairy Peruvian Alfalfa is the hardiest type ever introduced here successfully and has the longest producing season.
It produces a greater abundance of leaves than any other variety, thus creating the highest feeding value.
Results obtained by practical ranchers show an average increase of 2½ tons of hay per acre per season over common varieties.
After each cutting it recovers very quickly, giving additional cuttings per season over other varieties.
We successfully introduced this seed in this section—and we stand solidly back of it. **We guarantee it to be the true Hairy Peruvian strain**—and in order to insure perfect results we advise you to buy only the proven Germain variety. Read what people write us about our Hairy Peruvian.

Gentlemen:
I never took greater pleasure in testifying to the merits of anything than I do in stating that the Hairy Peruvian alfalfa seed sold by the Germain Seed & Plant Company, of Los Angeles, Cal., is all they claim for it and then some! It is the finest hay I ever saw, full of leaves from bottom to top. Will say that it is the best investment I ever made.
Dr. T. B. Spaulding,
Route 4, Turlock, Cal.

Gentlemen:
I planted some Hairy Peruvian and Chilean alfalfa seed last spring side by side, and find that even under unfavorable conditions Germain's Hairy Peruvian made a better stand and made a cutting first, makes more to the cutting, and will not dry out as quickly as the common variety.
W. M. Taylor,
Route 1,
San Bernardino, Cal.

Gentlemen:
I planted five acres to Germain's Hairy Peruvian Alfalfa seed, and have cut four times in less than six months time. My last cutting was about two tons per acre.
C. A. Kirkpatrick,
Lancaster, California.

Gentlemen:
Will say that Germain's Hairy Peruvian Alfalfa made a much better showing than the common variety sown at the same time, but it did not have a fair chance for lack of moisture.
G. S. Garner,
Route 1,
Trenton, Cache County, Utah.

Gentlemen:
We planted Germain's Hairy Peruvian Alfalfa seed in March of this year, have already cut it three times, and it is almost ready for the fourth cutting. All of these have been good cuttings. With careful attention we would have five this first year.
Boston Land Co.,
Sept. 18, 1917. *Huron, Cal.*

Did you ever stop to think that the seed is really the least item of your expense in the production of alfalfa? Well, it is. First of all, you have your money invested in your land, which otherwise could be loaned out at not less than 6½. This is your first and greatest expense. Secondly, the expense of leveling, checking, and preparing the soil for seeding. Now you are ready to purchase your seed.

You must always bear in mind that you are putting in a permanemt crop, which will continue to produce for years without reseeding. Therefore, in order to get the greatest returns on the money invested, you should be sure to sow the variety of seed that will give you the greatest production. Hairy Peruvian actually **produces 2½ tons more hay per acre** per season than the common Chilean variety! If it only produced one ton more hay per season, it would more than cover any additional expense of seed in the first season's cutting: and just think of the seasons to follow. Doesn't this mean dollars in your pocket? Why hesitate? Place your order now, and be sure of getting some of this seed.

Please write for Special Pamphlet "Hairy Peruvian Alfalfa."
PRICES: 1 lb. 60c.; 10 lbs. $5.00; 25 lbs. $11.00; 50 lbs. $21.50; 100 lbs. $42.50. Write for quantity prices.

GERMAIN'S PREMIUM BRAND ALFALFA SEED

The average grower can hardly appreciate what care and expense is necessary in the securing and cleaning of Germain's own brand—Premium Brand Alfalfa Seed.

Every pound of Premium Brand is grown from fields that have been carefully examined in the green by Germain experts, not only for weeds, but with care as to its healthy appearance and virility. The least indication of noxious weeds or poor vitality is sufficient for the rejection of the field; and during harvesting our inspectors are on the ground to see that no rejected fields are headed for Germain shipments. After two cleanings in the field, the seed is shipped in tightly woven bags to our city warehouse, where it is again run slowly through our recleaning plants, and given a microscopic test at intervals sufficient to prove the seed the best that modern scientific methods can produce. It is then given a most rigid laboratory test for purity, waste and germination. Once in the hard thread cotton bags bearing the stenciled mark, "Germain's Premium Brand," and sealed with our lead seal, the buyer is guaranteed the most virile, cleanest, best value for the money, and altogether satisfactory seed ever marketed. Price 45 cents per pound, postpaid, 10 lbs. $3.25. QUANTITY PRICE, WITH SAMPLES, ON REQUEST.

ALFALFA is subject to market changes and we are, therefore, unable to place quantity prices in our catalogue. Write for quotations and samples.

STANDARD QUALITY ALFALFA. We can also furnish standard grades at market prices. Quotations and samples sent on request. Price 35 cents per pound, 10 pounds $2.50. Write for prices when quantities are wanted.

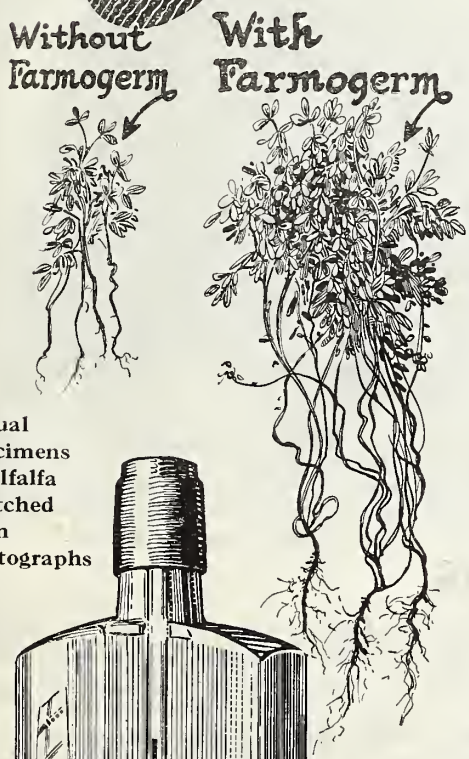
PERUVIAN ALFALFA. A rapid growing variety which grows well into the cold season. It is said to produce more tonnage per acre than the ordinary sorts. It is especially adapted to the semi-arid sections of California. Our stock of this is exceptionally good, we having been fortunate in securing some extra fancy seed. Price 45 cents per pound, 10 pounds $3.00. Write for prices where quantities are wanted.

TURKESTAN ALFALFA. This variety is especially adapted to sections where there is a limited amount of water available. We recommend it for the San Joaquin Valley and sections to the north of Los Angeles. Price 40 cents per pound, 10 pounds $2.75. Write for prices where quantities are wanted.

GRIMM ALFALFA. An extremely hardy but low growing type. Planted principally where severe winters prevail. $1.00 per pound.

INFORMATION. Do not fail to write for our pamphlet entitled "ALFALFA." This is free to you and if you are planting out Alfalfa, it will be of special interest. It is a pleasure to us to quote you on the different varieties and send you samples at any time that you may be in the market. We make a specialty of Alfalfa and shall be pleased to advise you on any point about which you are in doubt.

Double your crops with Farmogerm



Actual Specimens of Alfalfa Sketched from Photographs

If you want to grow larger crops of certain kinds this year—if you want to grow larger crops **next year**—if you want to grow crops of greater food value—if you want to enrich your land and increase the value of your ranch—if you want to produce greatest results with least expense—inoculate your seed—inoculate with **FARMOGERM**, which is high-bred nitrogen-fixing bacteria.

The element of nitrogen is absolutely essential to all growth in the vegetable kingdom, and particularly to the legumes, which include alfalfa, peas, beans, clover, vetches, fenugreek, etc. Farmogerm is the wonderful discovery of a practical, commercial means for propagating nitrogen bacteria in untold millions and preserving them for transportation. For many years the only remedy for crops suffering from lack of nitrogen was the application of manure or other nitrogen carrying fertilizer.

Farmogerm is the trade name for the most highly bred culture of the nitrogen gathering bacteria and is manufactured by the Earp-Thomas Farmogerm Co. of Virginia. By means of specially designed bottles the bacteria are preserved against the entrance of destroying bacteria from the air—yet sufficient nitrogen is allowed to enter to keep them alive and viril.

Farmogerm is applied preferably direct to the seed before planting, by diluting the jelly containing bacteria with water and mixing with the seed. Farmogerm will remain in good condition for at least two years. Farmogerm can also be applied to planted fields by sowing a small quantity of inoculated seed, or sprinkling inoculated soil over the area.

Farmogerm will increase legume crops, giving quicker growth, a larger crop and earlier maturity. Farmogerm means better crops—better soil—less fertilizer—less labor.

Farmogerm is put up in special cultures for the following crops—alfalfa, vetch, peas, beans, melilotus clover, fenugreek, cow peas, soy beans, Canada field peas, red clover, lupins, and all other legumes.

Specify crop to be inoculated when ordering.

PRICES		
	One-Acre Size	$2.00
	Five-Acre Size	7.50
	Garden Size	.50

Write or call for special booklet on Farmogerm.

Note special contrivance which admits nitrogen but prevents the entrance of all foreign matter. The dark substance at the bottom is jelly in which the bacteria live. Note the air tube extending down from the cork.

BEANS AND PEAS

(QUANTITY PRICES AND SAMPLES ON REQUEST)

Be sure to read page 43.

NOTE. Prices on one-half pound and pound quantities include postage or express prepaid. When sent otherwise, deduct 10 cents per pound or fraction thereof. Prices listed for larger quantities, if desired sent by Parcel Post, necessary postage should be added. See our Parcel Post schedule on page 1.

THE TEPARY BEAN

The Tepary has a rich, nutty flavor, far superior to the ordinary bean. Tepary has no disease therefore cannot be destroyed thro this source. It matures in sixty-five days from time of planting, allowing two crops per season in some sections, 12 pounds per acre is sown.

Our stock of TEPARY BEAN seed has been expecially grown and hand-picked, and is therefore in the best of condition. We advise those who are interested to send on their orders at once so that they will be sure of securing some of this special stock.

Those who live in the arid and semi-arid lands of the West should not fail to plant Tepary Beans.

PRICE: Pound 30 cents.

BEANS

BAYOU. As an article of food they are fully equal to the pink or Mexican "frijole." Per pound 25 cents, 10 pounds $1.25.

CASTOR. Used for planting in poultry yards and ornamental grounds to afford temporary shade and landscape effects. Pound 25 cents.

MEXICAN PINK BEAN. One of the most successfully grown varieties. It is a first-class bean, and people of Spanish descent prefer it to all other varieties; Per pound 35 cents.

SMALL NAVY. The most popular dry bean for cooking. Per pound 35 cents.

LADY WASHINGTON. A small white kidney shaped bean; heavy bearer. Per pound 35 cents.

SOJA. Used as a substitute for coffee, also as a forage plant. They are highly recommended as a soil improver. Pound. 35 cents.

ENGLISH OR BROAD. Refer to page 8.

FIELD PEAS

Forty or Fifty Pounds per Acre

CANADIAN, WHITE. Highly valued for plowing under in orchards as a soil improver; 25 cents per pound.

PRUSSIAN, BLUE. Similar in habit of growth to the white; Per pound 35 cents.

GARBANZO or CHICK PEA. Culture same as Bush Beans; withstands dry weather well; grows two feet high, making a bushy, hairy plant. The ripe seeds are very desirable for cooking 25 cents per pound.

COW PEAS

Sixty to Ninety Pounds per Acre

WHIPPOORWILL. A bunch-growing variety; great favorite; brown speckled seed; 30 cents per pound.

BLACK EYE. Used in some sections as food; 30 cts per pound.

A SINGLE VINE OF TEPARY BEANS

GRASS SEEDS

Write for Quantity Prices

Note.—Prices on half pound and pound quantities include postage or expressage prepaid. When sent otherwise, deduct 10 cents per pound or fraction thereof. Prices listed for larger quantities, if desired, sent by Parcel Post, necessary postage should be added. See our Parcel Post schedule on Page 1. If quantities are desired, do not fail to write for samples and special prices, as all field seeds are subject to market flunctuations.

BERMUDA GRASS (Cynodon Dactylon). Suitable only for climates where the winters are not below the freezing point. It stands the hottest and driest season. Sow six pounds per acre. Pound 75 cents.

KENTUCKY BLUE GRASS (Poa Pratensis). One of the best grasses for permanent pasture, furnishing a constant supply of the most nutritious feed during the greater part of the year. Sow 28 pounds per acre. For prices, see page 53.

For Lawns—Blue Grass is used very extensively for lawns and is found in all lawn grass mixtures.

CRESTED DOGS TAIL (Cynosurus Cristatus). A perennial grass with short, narrow leaves; valuable for lawns or pastures on dry, light land. Pound 60 cents.

CREEPING BENT GRASS (Agrostis Stolonifera). Well adapted for sandy pastures near the coast, and good for pasture on low lands. If sown alone, use 25 pounds per acre. Excellent for lawns. Use 12 to 15 pounds per 50-foot. Pound 60 cents.

ITALIAN RYE (Lolium Italicum). A quick-growing grass, attaining a height of 2½ to 4 feet; very desirable for temporary meadows or pastures. Thrives best on soils that are slightly moist, and will even stand considerable overflow. Grows easily and bears an abundance of foliage that makes the best and sweetest hay imaginable. Sow 40 pounds per acre. Pound 35 cents.

AUSTRALIAN RYE GRASS (Lolium Perenne). A strong growing, hardy perennial grass, noted for its nutritive qualities. Is equally valuable for both grazing and hay. Forty pounds per acre.

For Lawns this is used and recommended by many gardeners. If sown thickly it makes a fine lawn, and for large grounds and parks it is very successful. Pound 30 cents, 10 pounds $1.75.

FESCUE RED (Festuca Rubra). Forms a close rich sod, thrives well in dry, sandy and acid soils. Roots creep extensively. Valuable in lawns and should be included in putting green mixtures. Pound 60 cents.

NATAL GRASS. A native grass of South Africa. It is strictly an annual grown widely in semi-arid and semi-tropical countries. It is used as a hay or pasturage plant. Sow seed in early spring after soil is thoroughly warmed. It matures in about 90 days. $1.00 per lb. Write for quantity price.

VARIOUS LEAVED FESCUE (Festuca Heterophylla). Grows 2 to 3 feet high, valuable for permanent meadows, either for mowing or grazing. It is especially valuable as a lawn grass for shady places. Pound 60 cents.

RED TOP (Agrostis Vulgaris). A good perennial grass. Generally sown for permanent pastures. Does best on moist or even marshy land. If the ground is not overflow land mix with Meadow Fescue, Orchard Grass or Alsike Clover. Sow 14 pounds hulled. Pound 60 cents.

RHODES GRASS. An Australian grass which grows readily on sandy or light soils. Grows thickly producing from 5 to 10 tons of fine quality hay. It is uery palatable to stock, easy eradicated when desired and very highly recommended by farmers who have grown it. 1 lb. $1.25, 10lbs. $10.00, postage extra.

RHODE ISLAND BENT (Agrostis Canina). Resembles Red Top. Makes a close sod valuable for permanent pastures and meadows. Twenty-eight; pounds per acre. For lawns, use 12 to 15 pounds per 50-foot lot. Gives good results. Pound 60 cents.

SWEET VERNAL (Anthoxanthum Odoratum). Valuabe to put in pasture mixtures and lawn grass on account of its earliness Twenty-eight pounds per acre, but this grass is recommended only for use in mixture. Pound 95 cents.

TIMOTHY (Phleum Pratense). This is the most valuable of all grasses for hay. Thrives best on moist, loamy soil. Sow early in the spring or fall. Sow 15 to 20 pounds per acre. Pound 30 cents.

WOOD MEADOW GRASS (Poa Nemoralis). As a lawn grass its creeping roots soon form a good turf. Of early growth and thriving well under trees where other grasses will not grow, most valuable lawn mixture, especially for shady places. Pound 85 cents.

AWNLESS BROME GRASS. (Bromus Inermis). withstands drought that kills other grasses. Unexcelled under such condition. Price, pound 35 cents; 10 pounds $2.00

GRAINS

(QUANTITY PRICES AND SAMPLES ON REQUEST)

Catalogue Prices Subject to Change Without Notice.

Note.—Prices on half pound and pound quantities include postage or expressage prepaid. When sent otherwise deduct 10 cents per pound or fraction thereof. Prices listed for larger quantities, if desired sent by Parcel Post, necessary postage should be added. See our Parcel Post Schedule on page 1. Grains are subject to market fluctuations and we are therefore unable to quote prices.

To rid your grain crops of smut and rust, we recommend dipping your seed in a weak solution of "Blue Stone". For further information see our Insecticide Department in rear of book.

BARLEY

Sow 100 pounds to the acre

HULLESS OR BALD. Does not shell in the field; grows about the same height as the common variety, and two to three weeks earlier.

BEARDLESS BARLEY. A new variety; vigorous grower and produces a good crop; beardless and easy to handle.

COMMON. Large heads of large grain; heavy yielder.

BUCKWHEAT

BUCKWHEAT. We are handling this in carload lots and especially recommend it for summer cover crops and for those who wish to plant it for bees. For special information regarding this seed, write for our booklet entitled "COVER CROPS". Price 20 cents per pound, 10 pounds 80c.

OATS

Sow 100 pounds to the acre

RED RUST-PROOF (Texas Grown). A heavy yielder and sure cropper and entirely rust-proof; best variety for growing in California.

RED RUST-PROOF (California Grown). Extra choice and heavy, recleaned seed; free from all light and chaffy seeds.

RYE

Sow 100 pounds to the acre

RYE. An excellent catch crop for fodder or grain also very desirable to sow with legumes for cover crops.

SPELTZ

SPELTZ, OR EMMER. A valuable substitute for oats and barley. It outyields oats, barley, wheat, etc., in bushels per acre and is superior to oats and barley for feed. Pound 25 cents.

WHEAT

Sow 75 to 90 pounds to the acre

Note.—We find that it is useless to offer a wide variety of wheats as there have been many varieties tried out and of them all there remain but a few which have proved successful under our Southern California climate. We list these below.

DEFIANCE. A rust-proof variety that stands up well; produces a large crop; large heads and plump kernels. True pedigree stock.

SONORA. This wheat is probably more widely used by the California farmer than any other due to the fact that it is an early maturing variety and a sure cropper.

It has been grown under most trying conditions with other varieties and where they were a failure the Sonora always yielded splendidly. Especially it this true in the desert and semi-arid sections.

The kernel is large, well-filled and bears good weight. We highly recommend it.

TURKEY RED. A hard red wheat, runs high in gluten and most desirable for poultry feednig.

DURUM OR MACARONI. A heavy producing wheat, adapted to mesas and semi-arid regions. Its drought resistance is its big asset.

SORGHUMS AND NON-SACCHARINES

(QUANTITY PRICES AND SAMPLES ON REQUEST)

Note.—Prices on half pound and pound quantities include postage or expressage prepaid. When sent otherwise deduct 10 cents per pound or fraction thereof. Prices listed for larger quantities, if desired sent by Parcel Post, necessary postage should be added. See our Parcel Post Schedule on page 1. Grains are subject to market fluctuations and we are therefore unable to quote prices. Write for prices and samples.

SORGHUM

EARLY AMBER. Furnishes a large yield of most nutritive forage, which can be fed either green or cured, and will yield two or three cuttings a year, stooling out thicker each time it is cut. It grows ten to twelve feet high. Sow broadcast for forage at the rate of 60 pounds per acre. When sown in drills, sow at the rate of 10 pounds per acre in drills three and a half to four feet apart. Per pound 25 cents.

SUDAN GRASS

SUDAN GRASS. This belongs to the sorghum family.

Sudan Grass is especially adapted to arid and semi-arid countries as it is a rank grower and will produce without irrigation 2 to 4 tons per acre, with irrigation 8 to 10 tons per acre and matures from seed in 55 to 68 days; subsequent cuttings maturing in 35 to 45 days. Do not fail to get our special pamphlet entitled Sudan Grass. It's free. Prices, ¼ pound 15 cents; 1 pound 35 cents. See page 5, and back cover.

MILLET

EGYPTIAN PEARL (Penicillaria spicata). Is an excellent fodder plant, attaining a height of five feet and over. Highly relished by cattle. Pound 30 cents.

GERMAN. Few other grasses or forage plants have been able to produce the enormous yield of this plant; it has produced 4 to 5 tons of hay to the acre, and from 70 to 80 bushels of seed. It can be sown on newly broken ground in the spring, and as late as July leaves the ground in excellent condition for following crops. Pound 25 cents.

HUNGARIAN. Will stand drought and grow on ordinary soil. Pound 25 cents.

JAPANESE. Great claims are made for it as to productiveness and value as a forage plant. Superior to corn fodder in feeding for milk. Grows six to eight feet high. Sow forty pounds per acre. Pound 25 cents.

SIBERIAN OR RUSSIAN. Claimed to be the most satistactory forage plant Pound 25 cents.

CORN

FIELD CORN. See page 39.

EGYPTIAN CORN. Similar to Kafflr Corn in growth and habits. We have an especially select lot of seed. Per pound 25 cents, 10 pounds $1.25.

FETERITA. This sorghum was recently secured from Sudan, where it is commonly grown under the name Feterita, an early maturing plant valued both for grain and forage. It resembles Milo in habit, except that the heads are uniformly erect, seeds bluish white in color. In drouth resistance it compares favorably with any sorghum yet introduced. Sow 8 pounds to the acre. Pound 25 cents, 10 pounds $1.25.

KAFFIR, WHITE. Unsurpassed for dry alkali land, on which no better fodder and grain crop grows. A prolific member of the sorghum family, having more foliage and smaller stalks than the other varieties, and harvested very easily. Its great root system enables it to produce wonderfully in drouth sections and breaks up new ground for other crops. Cattle relish the stalks, while the grain is a very valuable food for poultry. Pound 25 cents, 10 pounds $1.25.

MILO MAIZE. Grain is excellent for chicken feed, and the stalks for fodder. Pound 20 cents, 10 pounds 75 cents.

MILO MAIZE, DWARF. This is essentially a dry land crop, and where the rainfall or water supply is limited or expensive, you can find no more profitable forage and dry feed crop. Belongs to the sorghum family of tropical Asia and Africa where it is the main grain crop. It grows a stalk four to five feet high, with large, compact, erect heads, and cattle especially like the sweet flavor of the stalk. Pound 25 cents, 10 pounds $1.25.

SHALLU OR EGYPTIAN WHEAT. Is one of the most drought resisting grain crops known. Especially suited to dry land farming operations and localities where the normal rainfall is limited. Under irrigated conditions it grows to best advantage The grain is claimed to possess all the feeding values of wheat, and is especially valuable as a feed for hogs, chickens and cattle. Pound 25 cents, 10 pounds $1.25.

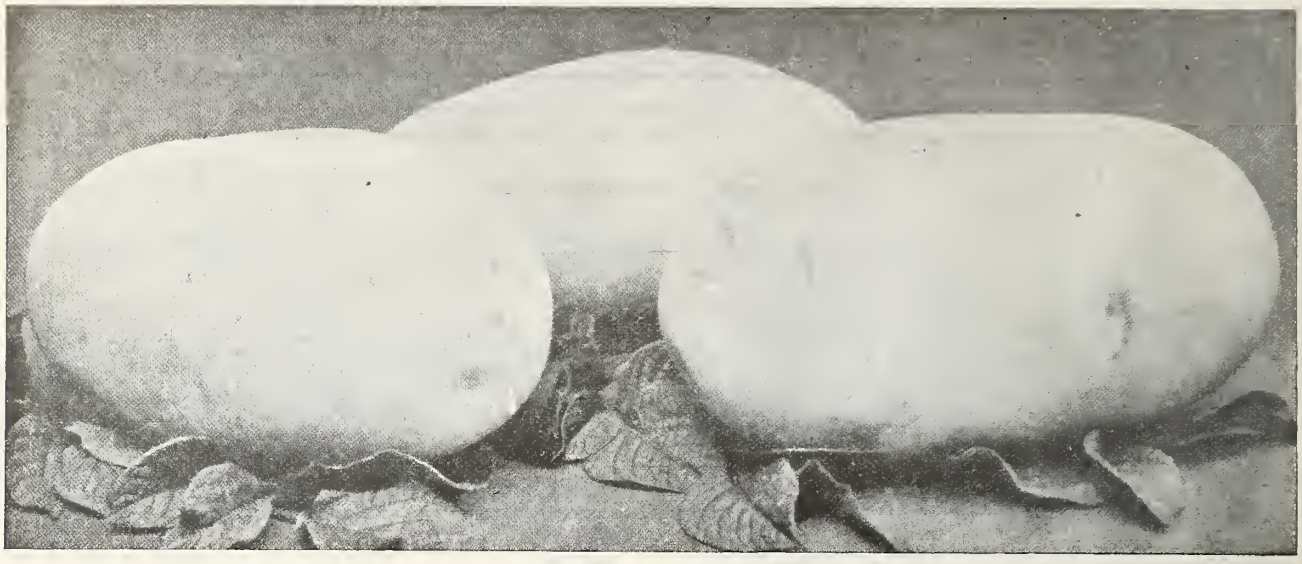
BROOM CORN

STERLING DWARF. See page 40.

STANDARD TALL. See page 40.

NORTHERN GROWN POTATOES

WRITE FOR PRICES



EARLY WHITE ROSE

KING OF VEGETABLES

The potato is more extensively grown than any other one vegetable. It may well be termed 'the King of vegetables,' as it is used in every household practically every day and is grown in every state. Last year we alone sold 75 carloads of seed potatoes and this year anticipate the demand to be greater as the potato is a sure means of cutting down the high cost of living. Be sure to plant a plot of ground to potatoes.

We are equipped to give you information as to the variety to plant and when. Our experts will be pleased to answer any question in order to help you produce a better and bigger crop.

The soil should be well worked and thoroughly drained. Sandy loam with a clay sub-soil is best. Eight to ten tons of manure per acre should be used if the soil is lacking in fertility.

The hill or row system may be used in planting. If in hills, they may be three feet apart each way or thirty inches one way and thirty-six inches the other way. The rows are usually three to three and one half feet apart. The distances between the hills in the row varies from 12 to 16 inches apart for early varieties and 17 to 20 inches for late ones according to the soil. On light soils early varieties may be planted four inches deep and late varieties five inches deep. Early varieties are planted any time after the middle of January, but there is danger of their being caught by frost if planted before February first. Usually it is best to plant the main crop of potatoes about the middle of February, as early planting usually gives better results than late planting. The cut seed should be as blocky in shape as possible. Long thin pieces are more likely to rot in the ground. A good method is to begin cutting of pieces at the stem and diagonally across the tuber until just enough is left at the blossom end to make two pieces, when this part should be cut in two so that all the eyes on the end will not be left on one piece.

When the rows are three feet apart and the space between hills is 15 inches, 600 lbs. of seed potatoes are required per acre, if the seed pieces are cut into 1 oz. This is about the average rate per acre for this region.

WRITE FOR PRICES.

Our Northern Grown Potatoes are contracted and grown for us in Oregon under our supervision and inspection. The stock being selected by us and grown in land that is free from disease. Our customers may feel that they are securing the best that can be had.

EARLY WHITE ROSE

Selected Stock

A highly popular smooth and uniform variety which is always in great demand on the market because of its genuine earliness and excellent cooking qualities. A pure white potato yielding a great abundance of medium sized, fine textured tubers. In fact, it actually possesses all the qualities necessary to make it ideal. For a potato that is realy early, try Germain's Premium White Rose—(See cut above).

EARLY RED ROSE

A Truly Wonderful Variety

The well known and popular pink skinned potato, bearing many qualities common to the White Rose. A real early maturing potato, excellent for first planting. Tubers are medium size, smooth and white meated—an elegant cooker.

EARLY TRIUMPH

Earliest of All

A pink skinned potato of extraordinary quality. An extremely early producer—yielding splendid roundish tubers of medium size. Bliss Triumphs generally produce the first new potatoes

AMERICAN WONDER POTATO

Selected Stock

A medium sized, smooth and heavy producing white potato, wonderfully well adapted to rapid growth under California conditions. Matures in a very short period being extremely healthy and vigorous. The American Wonder potato produces large quantities of perfect tubers in each hill and responds very readily to conditions meant for forcing. This variety is widely planted and many carloads are shipped from California every year.

BURBANK POTATOES

Northern Grown

One of the old standards, probably as widely grown as any variety of potatoes. Produces prolifically and comes to maturity late in the season.

Order your requirements early as we have obtained only a limited quantity of the burbanks northern grown.

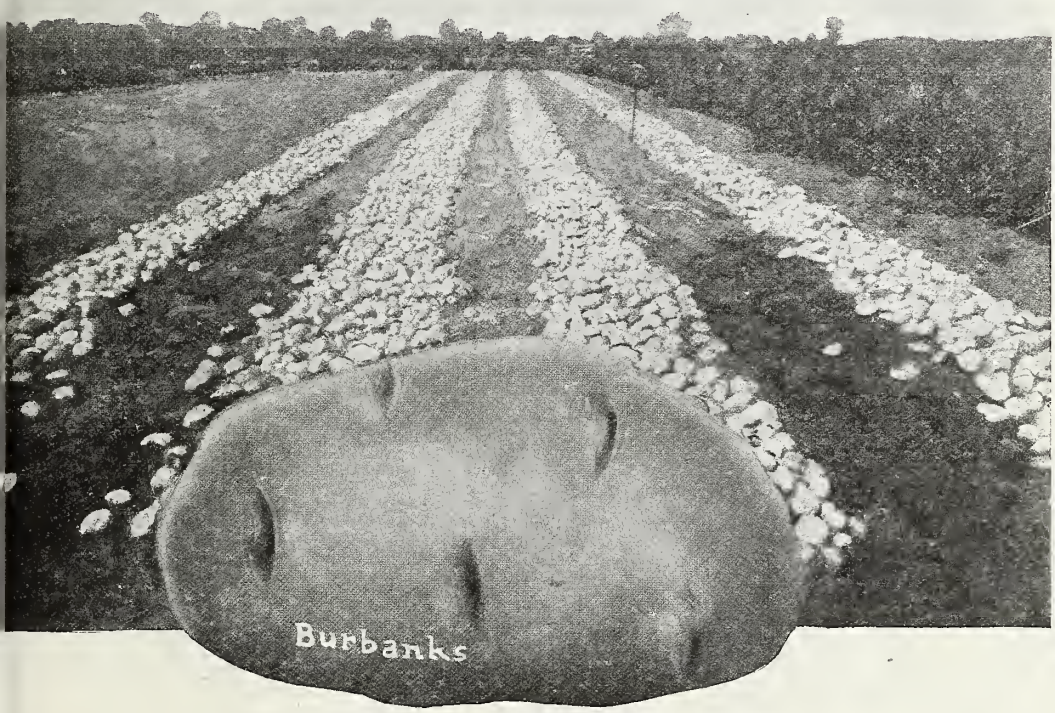
CHANGE YOUR SEED

The soil of Oregon and Washington States is made of much heavier, stronger character than here in California, so produces potatoes of greater vitality. By bringing potato seed grown in these states to California, it has been demonstrated much bigger, better, earlier and smoother yeilds are obtained.

If you want to produce the most for your money, better the quality of your potatoes, buy northern grown seed. If you want longer keeping quantities and uniform size plant northern grown potatoes. Change of seed is a prime factor in potatoe growing and northern stock is best.

Send for leaflet that tells how to prevent scab on potatoes. It's free to those who ask for it.

CALIFORNIA GROWN POTATOES



QUALITY

The potato which we offer for the coming season, is the finest grade of California grown stock obtainable. In addition there being more or less scab on the greater per cent of local potatoes we dip any that show any trace of disease in a solution of Formaldehyde to insure our customer they will harvest good clean potatoes if the soil is free from this disease.

Liming Potatoes

Freshly cut potatoes when planted right out often rot if soil conditions are not just perfect. when cutting your potatoes, put them into a container and on about every six inch layer sprinkle a covering of slacked lime. This will heal the newly cut parts, prevent rotting and help prevent disease.

Use Formaldehyde

Treat all your potatoes with Formaldehyde, it prevents scab and increases your yeild Send for detailed pamphlet. Free.

WRITE FOR PRICES

EARLY WHITE ROSE

We have secured a very fine strain of this well known and heavy producing potato which will be suitable for planting in almost any section.

Most of these have been grown by us at our Trial Grounds being true to type and of excellent quality.

GERMAIN'S EARLY HARVEST KING

A Comparatively New Strain and Very Popular.

An extra early potato of exceptional size; can be depended upon to yield among the very earliest new potatoes. A wonderful cooker, becoming extremely flaky and smooth when mashed for the table, also excellent for baking. A heavy producer yielding large roundish-oval tubers of considerable weight. A large number in each compact hill; of fine texture and full flavored.

GERMAIN'S LATE HARVEST KING

Late Harvest King is practically the same potato as above, described, only is much later in maturing.

AMERICAN WONDER POTATO

We have only a very limited amount of this variety of potatoes but they are of excellent quality, of medium size, and of heavy producing strain, retaining the same characteristics as the Northern grown.

EARLY BLISS TRIUMPH

A pink skinned potato of extraordinary quality. An extremely early producer—yielding splendid roundish tubers of medium size. Bliss Triumphs generally produce the first new potatoes.

BURBANK POTATOES

So well known as an old standard in the potato world that it is unnecessary to describe this grand old variety. Admirably adapted to California.

SWEET POTATOES.

We will be able to supply potatoes of such varieties as Yellow Nansemond, Large White and Jersey Red during fall and winter up to February. Write for prices. Plants after March. **SWEET POTATO PLANTS.** **See page 83.**

MISCELLANEOUS FARM SEEDS

(QUANTITY PRICES AND SAMPLES ON REQUEST)

Consistent with the Germain policy, we are giving great attention to the items listed under this head. In selection we give the same care as in all other seeds, recleaning by our improved machinery whenever the slightest necessity exists. We can give quick service in securing varieties not listed and free expert advice when asked for. We purpose carrying stocks of seeds ahead of the demand, but suggest as early inquiries as possible for unusual quantities.

Note.—Prices on half pound and pound quantities include postage or express prepaid. When sent otherwise deduct 10 cents per pound or fraction thereof. Prices listed for larger quantities, desired sent by Parcel Post, necessary postage should be added. See our Parcel Post Schedule on Page 1.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

ALFILARIA

ALFILARIA (Erodium cicutarium). One of the most nutritious of plants; cattle, sheep, horses and hogs alike prefer it to any other natural product of the plains. Pound 85c. Sow twenty pounds to the acre.

ARTICHOKE

ARTICHOKE, JERUSALEM (roots). The greatest hog food known, yielding over one thousand bushels to the acre. It can be grown without a great deal of cultivation and no harvesting is necessary. When the roots are full-grown, turn the hogs into the field and they will help themselves by rooting. We can supply the tubers from February until May. Price, 25 cents per pound.

CANARY SEED

CANARY. Used for bird food. It is also used as an ornamental grass and for hay purposes. Price, 20 cents per pound.

COTTON

Cotton is extensively cultivated in various parts of the globe within the thirty-fifth parallel of latitude. The plant is rather delicate and requires a moderately rich and sandy loam soil, such as river bottoms, for its proper development.

CULTIVATION—Prepare the land by having it thoroughly ploughed. Lay off into rows about four feet apart; sow the seed along the center in a straight furrow made with a small plough or opener. It can also be sown in holes twelve to eighteen inches apart. Sow in March. The young shoot appears above ground in about ten days, and is subsequently weeded and thinned. Blooming takes place about the beginning of June. As a general rule cotton is a dry weather plant. For ploughing, the planter requires just sufficient moisture to give the soil a spongy texture. Give plenty of water in the early stages—but too much is productive of wood, at the expense of wool, and a severe drought will produce a stunted plant. From the blooming to the picking season, warm dry weather is essential.

TENN. UPLAND; 10 cents per ounce 50 cents per pound.

EGYPTIAN. Originated in Egypt; erect and larger size than other cottons, producing an abundance of cotton; 10 cents per ounce, 50 cents per pound.

FLAX

FLAX. When grown for seed, plant forty pounds to the acre. One of the principal things to attend to when growing flax is to see that the ground is well cultivated. Price per pound 25 cents.

HEMP

HEMP is sparingly grown in Southern California. The seed is used for birds. Its fibre is in big demand. Per pound 25 cents.

LENTILS

LENTILS. Used for the table; growth and habits similar to the pea. Quite a favorite in California. Per pound 45 cents.

PEANUTS

Plant when weather is warm. A warm, porous, sandy soil, put into a good friable condition and freed from weeds, is most suitable. Remove the pods without injuring the kernel, and place contents in bags or baskets, a small quantity in each, where there is a free circulation of air, until needed for planting. Reject all shriveled kernels. It requires thirty-five pounds of peanuts in the hull to an acre. Plant in rows three feet apart and one foot apart in the row. Cultivate often and keep the ground loose, as after the blossoms drop, the peduncles enter the soil at the base and form the peanut.

VIRGINIA. The best variety for roasting; 35 cents per pound.

SPANISH. In addition to their value for nuts, these are very largely used in the South as a forage and fattening crop for hogs and other stocks. They are early to mature, very productive, and in the far South, where they can be planted in April, two crops can be made in a year, the second crop being planted early in July, the tops making a hay crop and the nuts a grain crop. In harvesting, the nuts hang to the vine and tops and nuts are fed together to hogs, cows and horses as a whole grain ration. Spanish Peanuts grow in more compact form than the Virginia Peanuts, making it possible to grow them closer, making the cultivation easier. 35 cents per pound.

Bigger yields of Peanuts are obtained by Inoculation with Farmogerm. Read page 43, it tells all about it.

RAPE

DWARF ESSEX. This crop is very highly recommended for pasturage for sheep and cattle, furnishing most rich and nutritious pasturage within six to eight weeks from the time of sowing. The fattening properties of Rape are said to be very much better than those of clover. It also makes splendid green feed for poultry. Rape is best sown in drills, at the rate of three to five pounds per acre, or it can be sown broadcast, when from six to eight pounds per acre should be used. Per pound 35 cents.

RICE

RICE. Very few people probably are aware of the fact that California is coming to the front as a rice producing State. We have secured a quantity of Japanese Rice Seed which has been grown in California for one year, and which makes it especially adapted to California conditions. We are especially posted on Rice Growing and shall be very glad to give you any special information and tell you whether your land is adapted to Rice growing. Price per pound 20 cents, 10 pounds 85 cents.

SALT BUSH

AUSTRALIAN (Atriplex semi-baccatum). Will grow on alkaline soils. Much relished by stock, supplying the necessary salt. One pound of seed to the acre if sown broadcast; four ounces if transplanted. In cutting fodder be careful not to injure the crown of the plants. Ounce 15 cents; pound $1.00.

AUSTRALIAN "OLD MAN." A distinct species different from the Atriplex semi-baccatum. It succeeds on alkali land as well, and withstands drought. Plant in hills six feet apart each way, several seeds to a hill, thinning out t the two strongest plants. Packet, 10 cents, ounce 30 cents, pound $3.00.

SUNFLOWER

MAMMOTH RUSSIAN. Makes heads double the size of the common kind. The yield is enormous from this variety. It has produced as high as 125 bushels to the acre. Per pound 20 cents.

TEOSINTE

TEOSINTE. Resembles corn, but leaves are much larger; very nutritious. Ounce 10 cents, pound 90c.

TOBACCO

Tabaco Tabak Tabac

Cultivation of Tobacco is comparatively easy and a warm climate suits it best. The best time for starting the seed is January. Sow in seed beds of rich soil, and as the seed is extremely minute, it is first largely mixed with sand and wood ashes to assist in spreading it thinly. One ounce of seed will sow twenty-five feet square and produce plants for one acre. After the beds have been sown, cover the seed slightly and protect from light frosts. Remove covering as soon as can be done with safety, and the plants will then grow rapidly and are ready for transplanting about the first of June. Wet or foggy weather is the best for transplanting. The plants must be carefully raised from the seed bed and planted in the fields in rows three feet apart and leaving five feet between the rows. The crop needs much careful attention in weeding, and a watchful eye to prevent the ravages of various insect enemies. As soon as the plants begin to throw up the flower-shoot, it is clipped off; otherwise it would weaken the plant.

CONNECTICUT SEED LEAF. Grows to a height of about five feet, with leaves two and a half to three feet in length and from fifteen to twenty inches broad, one of the best varieties for cigar wrappers. Per packet 10 cents, 75 cents per ounce.

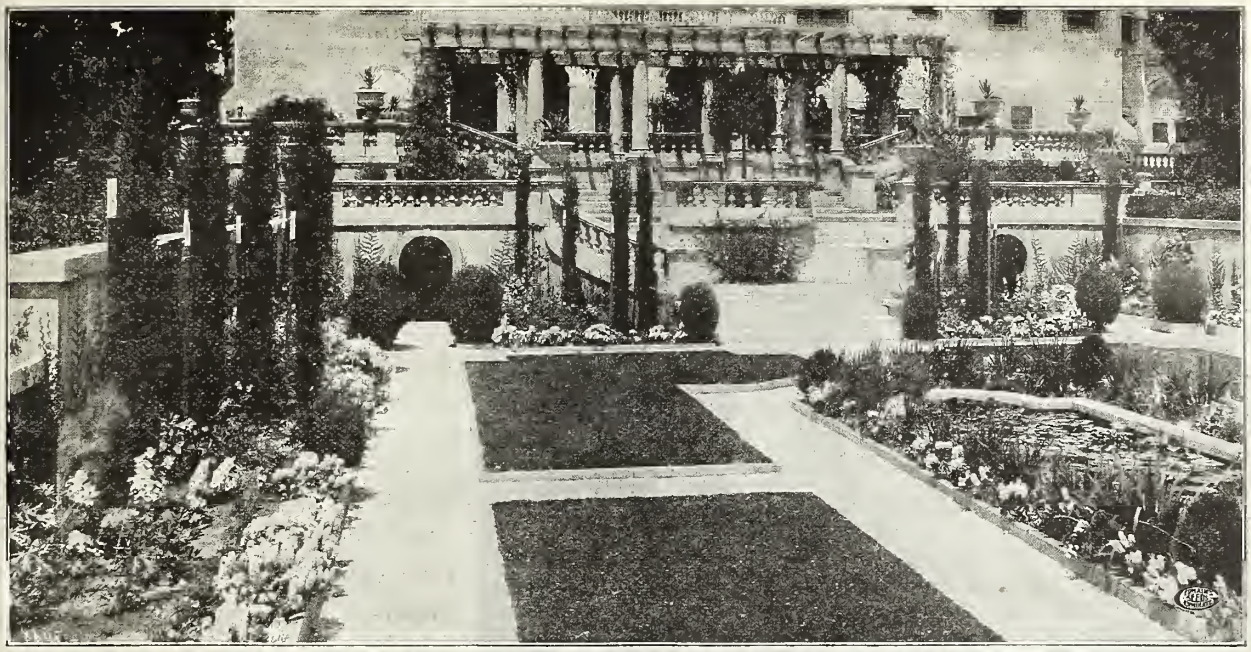
HAVANA. Bearing a fine colored leaf, varying from straw color to dark brown or black; it surpasses all other varieties in flavor for cigars; heavy cropper, fine texture, and the earliest variety to mature and ripen.

American Grown Per packet 10 cents, ounce 40 cents.

Cuban Grown (Vuelta de Abajo). Per packet 10 cents, ounce 75 cents.

SUMATRA. Per packet 10 cents, $1.50 per ounce.

TURKISH CIGARETTE (Sam Sue). Per packet 10 cents, $1.00 per ounce.



FLOWER SEED DEPARTMENT

A FEW CULTURAL SUGGESTIONS

Few people are aware of the great number and variety of flowers that can be raised from seed. In this glorious Southland, the time taken to obtain fine flowering specimens is not nearly so long as in colder climates, while varieties grow to splendid perfection, if given a reasonable amount of care. There may be a few of the very hardiest species that need a longer winter's rest than is here afforded, but it has been the experience of growers that these soon become acclimated and flower over a larger season than when the summer is short and hot—the winter long and cold. A little experience has to be obtained as to the suitability or otherwise, of certain kinds for special locations but once a general idea of the likes and dislikes of the plants is obtained, it is plain sailing.

One great advantage in raising a flower garden this way is the saving of money. The price of plants at certain seasons of the year and in times of scarcity, is high. This is unavoidable, but seeds can always be purchased for a few cents. Then the interest of watching—first, the tiny germ or seed leaves and eventually the stems and flowers—is great. It has a charm that is always fresh, always new, and the grower has a feeling that he or she is indeed the real owner of the plant. It has never belonged to anyone else. "I raised that from seed," the owner will say of perhaps a stately Delphinium or other fine herbaceous plant and the pride exhibited in that sentence is surely pardonable and proper. Then the pleasure of giving or exchanging plants with a neighbor is facilitated by seedling raising, because there is always plenty for everybody, so different to having to buy them by the dozen, or hundred. A packet of seed usually means thousands. We have followed the usual course of catalog makers in classifying into hardy, half-hardy and tender annuals, biennials and perennials, but this need not be taken too literally in California, for many things tender in the east, middle west and north, are perfectly hardy here and will grow outdoors the year around without protection of any kind.

HARDY ANNUALS may be sown in the open air at any time. The name "Annual" indicates that they live only one season.

HALF-HARDY ANNUALS should be sown in a frame or given some protection until the seed germinates if needed early. By the middle of April, it is quite safe to sow in the open.

TENDER ANNUALS is a term used to distinguish those plants usually grown in greenhouses or frames. Speaking generally, they need more skilful treatment than the hardier kinds, though it is getting quite common now to see such plants as Cyclamens, Cinerarias and others that were formerly grown entirely in greenhouses, flourishing outside on rockeries or beneath trees that throw sufficient shade to protect them from the hottest rays of the sun. This is a type of gardening peculiarly suitable for California, and especially Southern California. Ask us about it if you are interested.

HARDY BIENNIALS are those that flower in the second year from sowing the seed.

HARDY PERENNIALS are among the finest of our border plants. They do not usually flower till the second year after sowing, but may be relied upon to produce larger clumps of flowers year by year for many years.

HALF-HARDY PERENNIALS are those which require some protection during the coldest weather, as they will not stand frost.

TENDER PERENNIALS are those species that require greenhouse or other protection during the greater part of the year. See also tender annuals.

HARDY ANNUALS. The best time to sow is in the fall months, as they will make much stronger plants and flower much more abundantly when wintered over. They may be sown in any finely-prepared shady border, and transplanted when large enough, to where they are to flower. Do not cover the seeds too deeply. A good rule is to cover each seed its own depth with soil, at the same time taking care to water carefully. Never water so much that the soil gets "soggy," i. e., saturated; nor ever let the top get dry. Most varieties will germinate within ten days.

They may also be sown at any time during the spring months for summer blooming, care being taken to shade the young plants after transplanting, in hot weather.

HALF-HARDY ANNUALS may be sown in April out-of-doors, or in boxes, in March or earlier. If in boxes they should be covered or removed under cover during the night-time and during heavy rains. Those who have hotbeds may sow the seed in February and grow the plants in three inch pots for planting outdoors in April, thus gaining two months on those who have not this advantage. If sown in boxes, the boxes should have an inch of rough soil or gravel at the bottom for drainage; the remainder of the box should be filled within an inch of the top with sifted, light, rich soil, firmly pressed, and watered. The seed should be sown, and covered its own depth with soil, then covered with a sack or burlap until germinated, when the covering must be removed. When the young plants are large enough to be handled, transplant to other boxes, planting them about one inch apart, and, when weather permits, they should afterwards be planted in the open ground in the place where they are to flower.

TENDER ANNUALS should be sown in pots as follows: Take a five or six-inch flower pot, put an inch of drainage in the bottom, then two inches of finely-sifted soil, firmly pressed, with a sprinkling of sand on top. Then sow the seed, and do not cover, but press into the soil. Water with a very fine sprinkler, and cover the top of the pot with a sheet of glass. Remove the glass for an hour daily to dry up the damp. When seedlings appear, gradually harden them off to the air. As soon as they can be handled, transplant to two-inch pots, and shift again when necessary.

HARDY BIENNIALS and **PERENNIALS** should be sown in September. Many varieties, if sown then, will flower the next year. If sown in spring they will not flower till a year later. They may be sown in a shady border, and, when large enough, transplanted to where they are to remain.

HALF-HARDY and **TENDER PERENNIALS** should be sown in boxes, and treated as recommended for Half-hardy Annuals till plants appear, when they should be transplanted to two inch pots, and shifted afterwards when necessary.

We have arranged our list of flower seeds according to the various classes: Annuals, including separate lists of Everlasting Flowers and Ornamental Gourds; Climbers, Annual and Perennial; Biennials and Perennials; Ornamental Grasses, Annual and Perennial.

ABBREVIATIONS. Hh means Half-hardy, Annual or Perennial; T means Tender, Annual or Perennial. When no abbreviation is used, the variety will prove hardy in this climate. The letter B affixed to a variety means that it is useful for bouquets and cut flowers.

AQUILEGIA

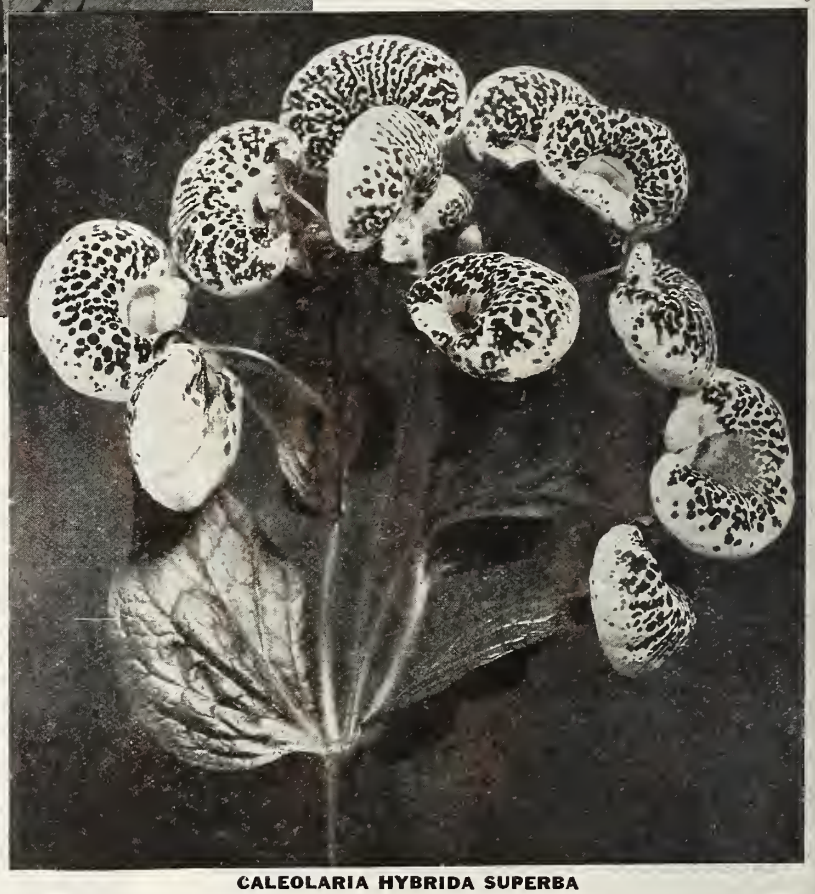
AQUILEGIA

(Columbine)

New long-spurred hydrids. These beautiful flowers are among some of the most brilliant colored spring and summer flowers. No other plant has so airy and beautiful a foliage with such an abundance of bloom as these new columbines. They are very effective when grown in herbaceous borders or as single plants; and will make charming and graceful bouquets for table decoration. Mixed colors, per packet, 25 cents.

CALCEOLARIA HYBRIDA SUPERBA

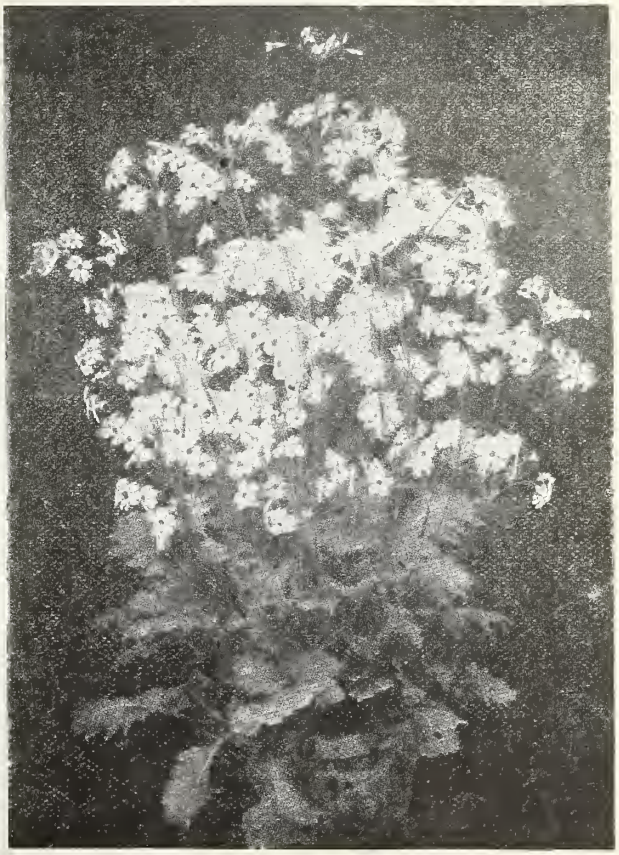
A truly marvelous specialty and undoubtedly the finest hybrid strain ever produced. The shades and markings are exceptional, being of peculiar mottled and striped combination. They have no equal and are highly ornamental for greenhouse, window or potted plants, producing pocket-like flowers in great abundance in early spring. Price per packet 50 cents.



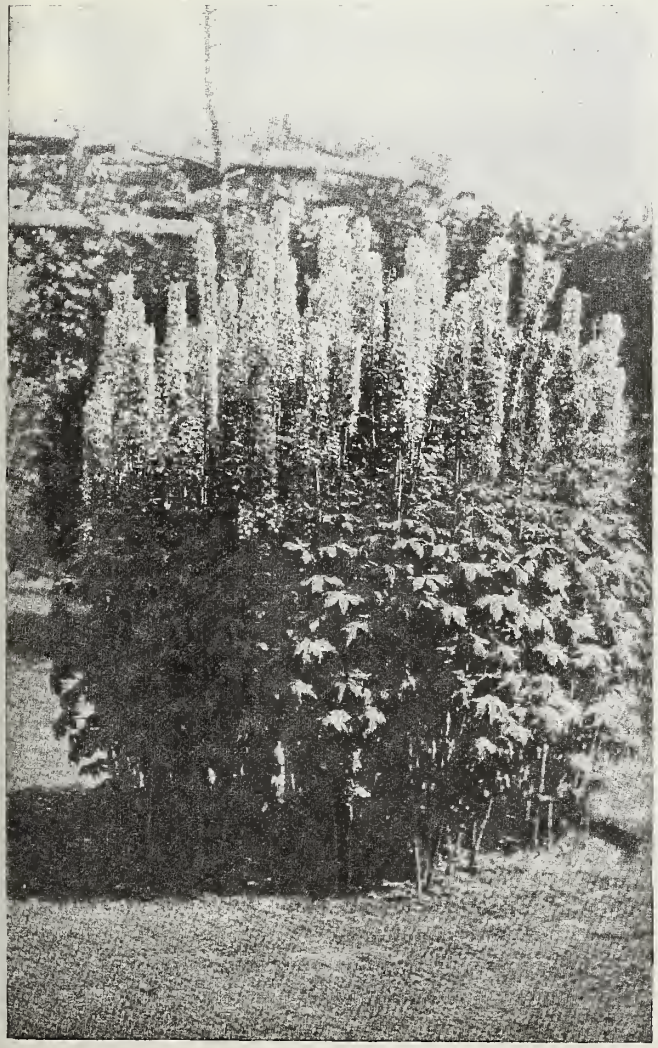
CALEOLARIA HYBRIDA SUPERBA

PRIMULA MALACOIDES

Primula Malacoides is one of the daintiest, hardiest and most profuse winter and early spring blooming plants, either for indoor or outdoor culture. The flowers are of a pale mauve color, produced in small clusters one above another on long stems. Plants set about eight inches apart make a handsome border, and will flower when there is a scarcity of outdoor blooms. Primula Malacoides thrives well in heavy soil. Price per packet 25 cents.



PRIMULA MALACOIDES



DELPHINIUM HYBRIDUM

DELPHINIUM HYDRIDUM
(Perennial Larkspur)

One of our finest herbaceous plants. It provides those delightful blue shades of which we have too little among our flowers The great spikes of these delphiniums are always the center of attraction. The height of the flowering plant is from three to eight feet, and when in bloom will charm any lover of flowers. Their flowering season is from about the middle of May, running into November. By cutting the stalks off down to the ground after they have flowered and before seeding, you will lengthen the flowering season. Mixed colors, per packet, 25 cents.

DELPHINIUM
(Bella Donna)

This beautiful variety is a continuous bloomer and grows about two feet high. Withstands frost and heat. Of a clear turquoise blue color. Fine for table bouquets. Per packet 25 cents.

GEUM COCCINEUM
Mrs. Bradshaw

SCABIOSA CAUCASICA

A highly decorative hardy perennial. Large handsome flowers of a soft mauve color. This wonderful Scabiosa is overlooked by too many lovers of flowers. Per packet 25 cents.

SCABIOSA GRANDIFLORA
(Mourning Bride or Pincushion Flower)

One of our old fashioned flowers. A native of Europe and East Indies. No garden is complete without a bed of these handsome sweet-scented flowers. They are fine for cutting and make an excellent showy border or bed, growing about two feet in height and in a great variety of colors.

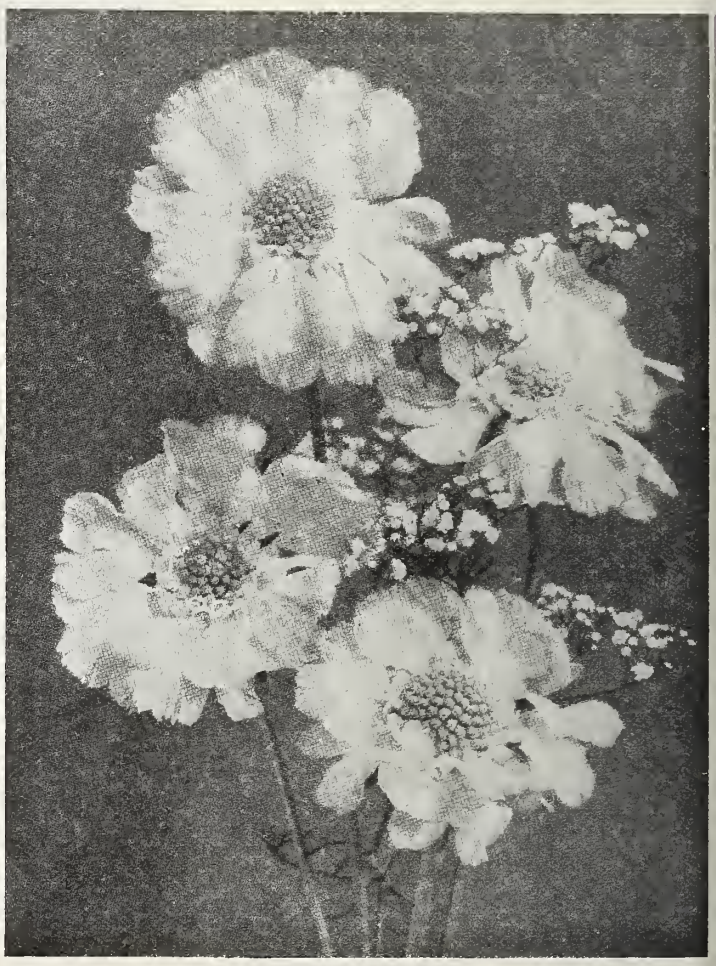
Separate Colors,
Flesh,
Lavender,
Maroon,
Rose,
White,
Mixed,
Six packets, 50 cents.

GEUM COCCINEUM
(Scarlet Avens)

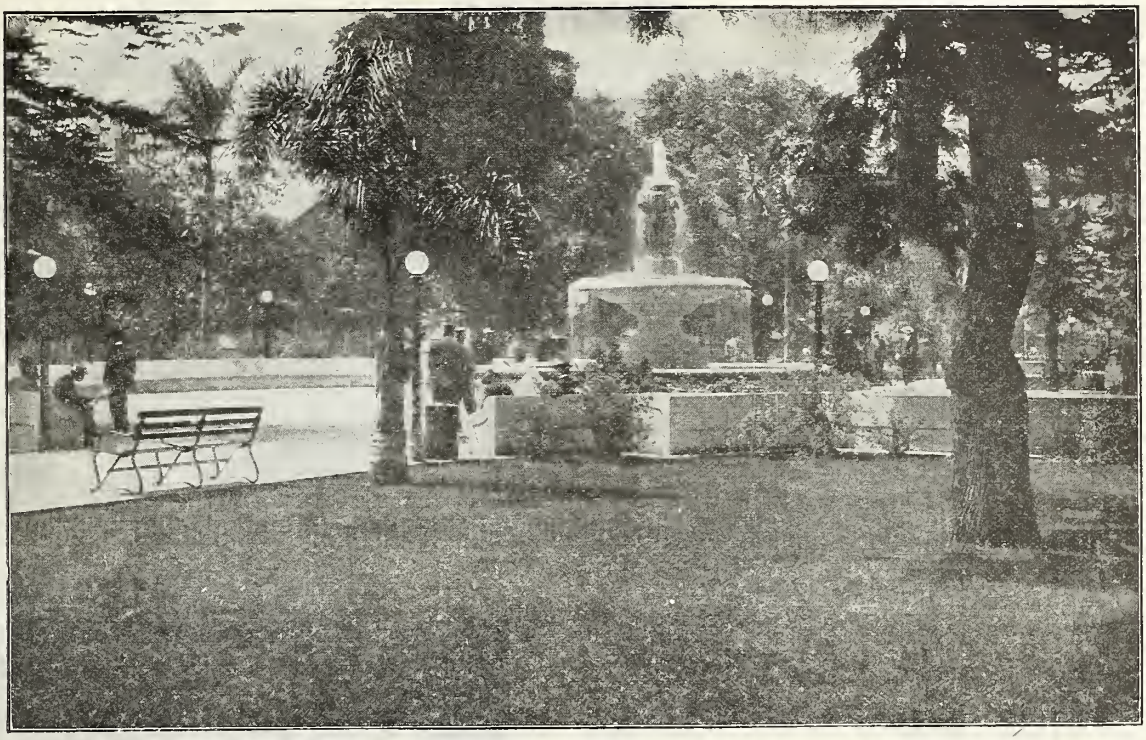
Mrs. Bradshaw. The double Mrs. Bradshaw is undoubtedly the finest Geum produced. The flowers are large and full, of a beautiful orange scarlet color, blooming from April to September. A hardy perennial. Height 18 inches. Price per pkt., 25 cents.

CHINESE WOOL-FLOWER

The Chinese wool-flower is a new celosia, and a most magnificent garden annual and remarkable floral novelty. Plants grow two to three feet high, the blooms starting with a central head, round and globular, and often reaches the immense size of two feet in circumference. Scores of branches are thrown out each bearing a ball of scarlet wool but not as large as the central one. All these branches support numerous laterals with small heads of bloom mixed with fresh green foliage, so that a plant looks like one immense bouquet. None of the blooms fade in any way, to partly spoil the looks of the plant, but they deepen in richness of color to a deep crimson. Sow the seed in a box protected from the direct sunshine. Cover them their own depth. Keep the earth moist and transplant to the open as soon as they are large enough to handle. Per pkt., 25 cents.



SCABIOSA CAUCASICA



CENTRAL PARK, LOS ANGELES
This lawn planted with Germain's Extra Recleaned Grass Seed

HINTS ON THE FORMATION OF LAWNS

Ask for Germain's free booklet "Lawns—Making and Proper Care."

See that the ground is well prepared. Dig or plow ground to the depth of 8 inches. Afterwards harrow or rake carefully, pulverize all lumps, and remove all large stones. If the soil is shallow, procure a supply of fine mold and spread over the surface to a depth of five inches. Soil may be enriched by bone meal or well-rotted manure wherever necessary; then rake level and roll the soil well to make a solid bottom. Scatter the seed evenly over the suface at the rate of 150 pounds to the acre (for Blue Grass), one pound to sixteen feet square. Rake seed in and roll, water regularly and carefully, as the soil is liable to dry out in the heat of the day, and if it does while the seed is germinating it will invariably perish. When the grass is three inches high it should be cut and rolled, and every week or so thereafter until the grass has become firm. Eradicate weeds whenever they appear, without disturbing the grass. Should bare spots appear, rake the surface and sow more seed. The roller should be used frequently during the season, and a dressing of lawn fertilizer once a year is necessary to the maintenance of a good lawn. Ask about NUVIDA Fertilizer.

FERTILIZING—Nothing will give a lawn the rich, deep green velvety appearance so much admired like a liberal dressing of a good fertilizer. Our fertilizers are specially prepared with that end in view and we can strongly recommend them. They should be used at the rate of one and one-half or two pounds to 100 square feet.

WEEDS—In the Southwest weeds in a lawn are the bane of every one's existence. Do not take the line of least resistance and immediately blame the seed or the seedsman. Grass seeds are invariably given a great deal of care and attention in order to eliminate weeds, and the seed we sell is absolutely free from all weed seed. Weed seed is in the ground, and in this country where the grass is dry so great a part of the year the winds will blow them on to the lawn, into the water that you use, and even the birds will carry them, for which there is absolutely no remedy; and if you want a lawn, you must not only expect weeds, but you must also pull them as soon as they appear.

LAWN GRASS SEED

Note.—Prices on half pound and pound quantities include postage or expressage prepaid. When sent otherwise deduct 10 cents per pound or fraction thereof. Prices listed for larger quantities, if desired sent by Parcel Post, necessary postage should be added. See our Parcel Post Schedule on page 1. Field seeds are subject to market fluctuations and we are therefore unable to quote prices. Write for prices and samples.

KENTUCKY BLUE GRASS. The seed we offer is extra fancy recleaned seed, the finest and purest grade obtainable anywhere. Per pound 50 cents, 10 pounds $3.80.

WHITE CLOVER. Our seed is strictly first-class, absolutely clean and pure and of the highest quality. Per pound 80 cents, 10 pounds $6.50.

AUSTRALIAN, OR PERENNIAL RYE GRASS. An extremely hardy sort, requiring less fertile soil and withstanding more hardships. Used extensively in Arizona and becoming very popular in Southern California. Per pound 30 cents, 10 pounds $1.75.

LIPPIA REPENS. See page 107.

NOTE—We strongly recommend, in order to obtain a hardy and healthy lawn, that you use a mixture of Blue Grass and White Clover. Where there is no preference in the matter, we advise a mixture of two-thirds Blue Grass and one-third White Clover.

LAWN FERTILIZERS

50 pounds can be sent by Parcels Post.

Note.—Prices on half pound and pound quantities include postage or expressage prepaid. When sent otherwise deduct 10 cents per pound or fraction thereof. Prices listed for larger quantities, if desired sent by Parcel Post, necessary postage should be added. See our Parcel Post Schedule on page 1. Field seeds are subject to market fluctuations and we are therefore unable to quote prices. Write for prices and samples.

NUVIDA LAWN AND GARDEN FERTILIZER is undoubtedly the best and most efficient fertilizer on the market. Ten pounds will cover 250 square feet.

Price 10 pounds 50 cents, 25 pounds $1.00, 50 pounds $1.70, 100 pounds $3.25.

FINE GROUND BONE MEAL. Good for top dressing and general fertilizing purposes. Per pound 5 cents, 25 pounds $1.00, 50 pounds $1.60, 100 pounds $3.00.

LIME CARBONATE. Admirably adapted to neutralize acidity and also to add fertility to the soil. Finely ground, easily applied, and immediately effective. In 100 pound sack only, at $1.00.

PULVERIZED SHEEP MANURE. This is specially prepared and carefully handled so that it possesses all of the elements of a high class fertilizer, free from weed seeds, and strong in plant food. Price 5 pounds 25 cents, 25 pounds 65 cents, 50 pounds $1.00, 100 pounds $1.75.

ANNUALS

The quickest and cheapest way of making a good display of color in the garden is by sowing annuals. But to sow them thickly as is frequently done and then leave the little plants alone to fight for a position—eventually running straight up, flowering once and then dying—is not the right way to treat them. Each plant must have room to develop its branches as they are produced, and in order to obtain this, they must be thinned severely and often, so that each stands at from 6 inches to 1 foot apart, according to the kind sown. Some, as noted under the separate headings, are better sown in boxes or pots and transplanted. Others do well sown where they are to flower. But in all cases, prepare the ground well by deeply spading and incorporating, as the work proceeds, good, well prepared manure. If natural manures cannot be obtained, we have the best commercial fertilizers always in stock, and these are equally effective. But give the plants room to develop, allow plenty of moisture, and the display that these pretty plants make will delight and surprise the grower.

COLLECTIONS (Our Selection)

Twelve fine varieties of Annual Flower Seeds, 50 cents. **Six Fine Varieties of Annual Flower Seeds, 25 cents**

Price $1.00 HARDY ANNUALS Regular Value $1.40

ALYSSUM SWEET. White, height ¾ ft.
ARCTOTIS GRANDIS. White with blue disc, height 2 ft.
BALSAM (Lady's Slipper). Height 2 ft.
CALENDULA (Prince of Orange). Brilliant Orange, height ¾ ft.
CANDYTUFT. Pink, height 1 ft.
CANDYTUFT. Empress white, height 1 ft.
CENTAUREA IMPERIALIS. Finest mixed, height 2 ft.
CHRYSANTHEMUM. Choice mixture, height 2 ft.
CALIFORNIA POPPY. Golden yellow, height 1 ft.
CORN FLOWER (Ragged Sailor). Blue, height 2 ft.
GODETIA. Extra fine mixed, height 1½ ft.
GYPSOPHILA ELEGANS. Very graceful for bouquets, height 1½ ft.
LAVATERA TRIMESTRIS. Rose color, height 2½ ft.
LINUM (Scarlet Flax). Beautiful Crimson Scarlet, height 1 ft.
MARIGOLD FRENCH. Mixed beautiful bronzed and yellow shades, height 1 ft.
MIGNONETTE. All sorts mixed, height 1 ft.
NASTURTIUM TOM THUMB. Finest mixed, height 1 ft.
PHLOX. Finest mixed, height 2 ft.
POPPY. Mixed all sorts, height 2 ft.
SCABIOSA (Morning Bride). Finest mixed, height 2 ft.
ZINNIA (Youth and Old Age). Mammoth mixed.

All 5 cent packets at 50 cents per dozen; 10 cent packets at $1.00 dozen; 15 cent packets $1.50 dozen; 25 cent packets $2.50 dozen.

	Pkt.
ABRONIA UMBELLATA (Sand Verbena). Delicate rose. Beautiful native trailer. Height ¼ ft.	$0.05
ADONIS FLOS (Pheasant's Eye). Crimson, with black eye. A beautiful showy, free-flowering plant. Height 1 ft.	.05
AGERATUM MEXICANUM. Fine for bedding or mixed borders.	
Imperial Dwarf Blue. Height ¾ ft.	.05
Imperial Dwarf White. Height ¾ ft.	.05

ALYSSUM

Fragrant and pretty. Nothing better for borders or parkways. Sow thinly at any time of the year and thin the plants to 3 inches apart.

	Pkt.
ALYSSUM.	
Germain **Compact.** Dwarf, White. Height ⅓ ft.	$0.05
Lilacinum. Pure lilac, fine for borders	.25
Sweet. White. Height ¾ ft.	.05
AMARANTHUS. Hh. The Amaranthus are splendid plants to give a tropical effect in mixed borders and shrubbery. Plant in sunny places and poor soil.	
Melancholicus (Ruber). Blood-red. Height 1 ft.	.05
Salicifolius (Fountain Plant). Purple, crimson and gold. Height 3 ft.	.05
Tricolor (Joseph's Coat). Red, green and yellow. Height 1 ft.	.05
ANAGALLIS (Pimpernel). Mixed various colors. Free-blooming, attractive plant for borders. Height ½ ft.	.05

ARCTOTIS GRANDIS

This plant is not sufficiently grown. The beautiful flowers have a steely blue sheen, reflected from the back of the petals that gives them a delightful and unique appearance which no other composite possesses. It is one of the finest annuals for cutting. Try it this season. Sow early in order to get large plants and sheaves of flowers.

	Pkt.
ARCTOTIS GRANDIS. Plants are of easy culture, flower abundantly from early summer till fall. Height 2 to 2½ ft.	$0.10
ARGEMONE (Mexican Poppy). Mixed, white and yellow. Very showy. Height 2 ft.	.05
ARNEBIA CORNUTA (Arabian Primrose). B. Yellow, spotted with black or maroon. Height 1¼ ft.	.15

ASTERS

GERMAIN'S GIANT COMET BRANCHING ASTERS

For Aster Plants see page 105

GERMAIN'S GIANT COMET BRANCHING ASTERS

Even with the most expensive reproduction process it is difficult to convey the real beauty of the splendid development of the good old Aster. The iridescent coloring of these great chrysanthemum-like flowers nearly as large as a saucer, with beautiful curved petals, makes a brilliant display in the garden, and the fact that they will keep well as cut flowers for a week or ten days is especially appealing to the busy housewife. The Giant Comet and American Branching varieties are the favorites among florists. The plants grow to a height of about 2 feet, are of full foliage and droop just enough for a graceful appearance. Planted from February to May, the Aster will furnish a continuous reward of gorgeous bloom from July to October. It grows easily, likes sunshine and a moderate amount of water.

GIANT COMET BRANCHING

	Pkt.		Pkt.
Crimson. Height 2 ft.	$0.25	Rose. Height 2 ft.	.25
Flesh. Height 2 ft.	.25	Shrimp Pink	.25
Lavender. Height 2 ft.	.25	White. Height 2 ft.	.25
Purple	.25	Mixed. Height 2 ft.	.15

Your Selection of Six from this Collection, $1.00
Full Collection, $1.25

OTHER VARIETIES

	Pkt.
AMERICAN BRANCHING.	
Crimson. Height 1½ ft.	$0.10
Flesh-pink. Height 1½ ft.	.10
Lavender. Height 1½ ft.	.10
Purple. Height 1½ ft.	.10
Rose-pink. Height 1½ ft.	.10
White. Height 1½ ft.	.10
Mixed. Height 1½ ft.	.10
BRANCHING KING. (New) Magnificent, numerous flowers. Peculiar formation of petals make flowers very effective. Violet	.25
BETTERIDGE'S QUILLED. Mixed. Height 1½ ft.	.10
COCARDEAU, or CROWN. White centers, mixed, white. Height 1½ ft.	.10
DWARF CHRYSANTHEMUM FLOWERED. Mixed, 1 ft.	.10
TRUFFAUT'S PEONY-FLOWERED PERFECTION. Mixed. Hgt. 1½ ft.	.10
White. Height 1½ ft.	.10

ASTER BED OF AN AMATEUR GARDEN
See Adjoining Letter

GRAEF & SCHMIDT,
SOLE AGENTS FOR
J. A. HENCKELS TWIN WORKS.
CUTLERY,
107 CHAMBERS ST
NEW YORK.
TRADE MARK THE TWINS
PROPRIETORS OF THE SPIDER BRAND
PACIFIC COAST OFFICE: ROOM 424, PHELAN BLDG., SAN FRANCISCO, CAL.

9/25th.-13.

My Dear Mr. Germain:

Under separate cover I am mailing some photos showing the display of Germain's Giant Asters in my garden. Do yuo think anybody can beat it? The size of the blossoms was immense and the shades wonderfl. I had over TEN THOUSAND blossoms at one time. Several of my neighbors are sending now for your seeds. Hope to see you personally some time next month.

Sincerely yours,

Carl Berg Fred.

ANNUALS

BALSAM

Good for flower beds, for mixed borders or for pots in the window garden or green-house. There is nothing that quite takes the place of the Balsam, as it is distinct from everything else in cultivation. Sow in February or March for use inside and in April in the open ground. Our strains are the finest selections from European and home grown varieties and cannot be excelled.

	Pkt.
BALSAM, Double Rose-Flowered. Mixed. Height 2 ft.	$0.10
Camella-flowered. Mixed. Height 2 ft.	.10
Dwarf. Mixed. Height 1 ft.	.05
Carnation-striped. Mixed. Height 2 ft.	.10
Solferino. White, lilac and scarlet. Height 2 ft.	.10
BARTONIA AUREA. Yellow. Height 1 ft.	.05

BRACHYCOME (The Swan River Daisy)

This is a dwarf and profuse flowering annual, fine for cutting. Sow it in a sunny position and cut flowers every day for three months.

BRACHYCOME IBERIDIFOLIA Cineraria-likeflowers. Native of Western Australia. Mixed. Height 1 ft.	.05
BROWALLIA ELATA. Hh. Mixed. Height 1½ ft.	.10
CACALIA COCCINEA (Flora's Paint Brush). B. Scarlet. Height ½ ft.	.05
CALANDRINIA UMBELLATA. Portulaca-like plants, fond of sunshine, well-suited for rock-work. Vivid crimson. Height ¼ ft.	.05

CACEOLARIA HYBRIDA SUPERBA

The splendid hybrids of Calceolaria that have been raised by European specialists, are among the finest pot plants in existence. These most not be confounded with the old yellow and brown varieties used for bedding. Our strain is absolutely the finest obtainable. Sow at intervals from June to August and treat as advised for Cinerarias.

	Pkt.
CALCEOLARIA HYBRIDA SUPERBA. T. Beautifully blotched, mottled and striped. Height 1½ ft.	$0.50

CALENDULA OFFICINALIS (Pot Marigold). Easy culture.	
Meteor. Yellow striped and bordered orange, height 1½ft	.05
Prince of Orange. Height ¾ ft.	.05
CALIFORNIA POPPY (Eschscholtzia) See page 76.	

CALLIOPSIS

If the varieties of Calliopsis were rare and high priced, people would rave about their beauty, but as they are so cheap and easily grown, they are often passed by unnoticed. The lovely combinations of yellow and brown are not excelled in any other plant and they have an elegance and grace all their own. Sow at any time of the year and in any position or soil.

FEED YOUR PLANTS AND VINES

All flowers respond readily to treatment with fertilizer. In the back of this catalogue we list the different fertilizers used. Further information will be gladly given at our insecticide department.

CENTAUREA

Everyone knows and likes the old fashioned "Sweet Sultans". In a variety of colors, they are great favorites of the florists, and they are also fine for the home garden, treated like any hardy annual. While they do fairly well in poor soil, no plant responds better to liberal treatment. The common Cornflower, Centaurea Cyanus, is decidedly the finest of all blue flowered annuals and a favorite wherever grown. Too good to miss and of the easiest possible culture. Sow anywhere at any time.

CENTAUREA.

	Pkt.
Chameleon. Flowers similar in shape to C. Marguerite, but varying in color from light yellow or straw-color to pink and yellow, or light rose. Height 1½ ft.	$0.10
Cyanus, Emperor William. Sky-blue. Height 2 ft.	.05
Dark blue. Height 2 ft.	.05
Pink. Height 2 ft.	.05
White. Height 2 ft.	.05
Mixed. Height 2 ft.	.05
Germain **Imperialis** is an improvement on the old-fashioned "Sweet Sultana; height 2 ft.	
Brilliant Rose	.10
Lavender	.10
Purple	.10
White	.10
Mixed	.10
Marguerite. Large, pure white flowers, about 2½ inches in diameter, with edge and petals beautifully tubed and twisted. Height 1½ ft.	.10
Moschata. White. Height 3 ft.	.05
Suaveolens. Yellow. Height 1½ ft.	.05
Mixed. Height 1½ to 3 ft.	.05

CENTAUREA IMPERIALIS

ANNUALS

CANDYTUFT

Fine plant for cutting. Good for massing or bedding and an easily grown, free flowering subject. The newer varieties are not to be compared with the older small flowering kinds, beautiful as these undoubtedly are, and no garden is complete without some at least.

CANDYTUFT.	Pkt.
Carter's Carmine. Height 1 ft.	$0.10
Empress. White. Height 1 ft.	.10
Little Prince. White. Height ½ ft.	.10
Purple. Height 1 ft.	.05
White. Height ¾ ft.	.05
White, Fragrant. Height 1 ft.	.05
Fine Mixed. All colors. Height 1 ft.	.05

CATCHFLY. Fine mixed. Height 1 ft. .05

CELOSIA

This is the botanical name of the well-known cox-comb or Prince's Feather. The former, C. cristata, is a stiff, formal plant, bearing immense "combs" of brilliant colors. The latter, C. pyramidalis, is more graceful and equally bright. Raise the seeds in a gentle heat if possible in early spring and extra large plants will result. Any kind of soil suits them and plenty of sun.

CELOSIA.	Pkt.
Cristata Empress. Dwarf, crimson, splendid. Height ¾ ft.	$0.15
Glasgow Prize. Crimson. Height 1 ft.	.15
Finest Mixed. Height ¾ to 1 ft.	.05
Pyramidalis. Mixed. Height 2 ft.	.10

CENTRANTHUS. B. Mixed, various colors. Showy annuals, with valerian-like flowers. Height 1 ft. .05

CHRYSANTHEMUM

The annual Chrysanthemums must not be confounded with the autumn flowering Chrysanthemum or Pyrethrum Sinense of botanists. They are showy, effective plants of the easiest possible culture, requiring only to be sown in the position where they are to flower and thinned to 9 inches apart. They make a fine display all the summer. Morning Star is a particularly attractive pale yellow.

CHRYSANTHEMUM.	Pkt.
Tricolor album. White. Height 2 ft.	$0.05
Burridgeanum. White, with crimson ring. Height 2 ft.	.05
W. E. Gladstone. Rich crimson. Height 2 ft.	.05
Coronarium. Double White. Height 2 ft.	.05
Double yellow. Height 2 ft.	.05
Morning Star. New beautiful pale yellow flowers, fine for cutting	.10
Double Mixed. Various colors. Height 2 ft.	.05

CINERARIA

Although in this favored southland, the Cineraria thrives outdoors in semi-shaded positions, it is as a greenhouse or window plant it is best known. Continental hybridists have been for years working on this flower and we annually add the best from these raisers to our own well known strain. Our seed plants are raised under the strictest surveillance of experts who are quick to note anything not up to the high standard set. The Cineraria dislikes heat at any time and must be always in a cool, moist atmosphere with plenty of air. Green fly or aphis is its worst insect enemy and must be destroyed on sight by light fumigation or dipping in one of the nicotine preparations sold by us. Sow at various times from May to August for winter and spring flowering.

	Pkt.
CINERARIA HYBRID. GRANDIFLORA. T. (See also Perennials.) Valuable winter and spring flowering pot plants for window or greenhouse culture. Choice mixed. Height 1 ft.	$0.50
CINERARIA HYBRID. Mixed	0.25

CLARKIA ELEGANS. Double rose. Height 1½ ft. .05
Fine Mixed. All kinds. Height 1½ ft. .05
CLINTONIA PULCHELLA. Pretty for rock work. Blue, white and yellow. Height ½ ft. .10
COLLINSIA BICOLOR. Purple and white. Height 1 ft. .05
CONVOLVULUS MINOR (Dwarf Morning-glory). Mixed colors. Height 1 ft. .05
CORN FLOWER. (See Centaurea.)
COSMIDIUM BURRIDGEANUM. B. Resembles Calliopsis. Maroon and yellow. Height 2 ft. .05

COSMOS

Cosmos are some of the most popular flowers for table decoration. The Mammoth varieties keep up a succession of bloom for a long period, and as they are fall flowers it is almost impossible to have flowers of the late variety in early spring. The early varieties can be had in bloom in early spring by fall sowing. They grow about 3 feet high and are also invaluable for mixed borders.

COSMOS.	Pkt.
Mammoth Perfection. Crimson, pink, yellow, white and mixed. Height 4 ft.	$0.10
Lady Lenox. A delightful shell-pink, 4 to 5 inches diameter. Height 4 ft.	.10
Lady Lenox. White. Height 4 ft.	.10
Ordinary. Pink, white and mixed. Height 4 ft.	.05
Germain's Early Flowering. Rose, white and mixed. Height 3 ft.	.10

DATURA HUBERIANA. Hh. Double Mixed. Height 3 ft. .10

DIMORPHOTHECA

Exactly suited to the climate of Southern California, the yellow African Daisy is a showy, beautiful dwarf annual, with orange yellow flowers, much more easily and quickly grown than the Gazania, so much used for parkings and narrow borders. A gem that should be in all gardens. Pkt.
DIMORPHOTHECA AURANTIACA. $0.10

ESCHSCHOLTZIA (California Poppy). See page 76.
EUTOCA. Mixed. B. Various colors. Height ½ ft. .05
FENZLIA DIANTHIFLORA. Pink and white. Height ¼ ft. .15
GAURA LINDHEIMERI. Rosy white. Fine for masses or mixed borders. Height 3 ft. .10
GILIA TRICOLOR. Violet, Yellow and White. Height 1 ft. .05
Dwarf Sorts. Mixed. Height ½ ft. .05

GODETIA

Native to the state of California, this annual has been improved out of all knowledge of the earlier botanists. The colors are exquisite and the texture of the flowers silky and attractive in the extreme. The varieties are not nearly as well known as they deserve. Sow where they are to flower.

GODETIA.	Pkt.
Amoena. Dark rose, native variety. Height 1½ ft.	$0.05
Duchess of Albany. Large white. Height 1½ ft.	.05
Gloriosa. Dark blood-red with satin luster. Height ¾ ft.	.05
Lady Albemarle. Dark crimson. Height 1½ ft.	.05
Rubicunda Splendens. Red. Height 1½ ft.	.05
The Bride. Crimson and white. Height 1½ ft.	.05
Finest Mixed. Height 1½ ft.	.05

ANNUALS

GYPSOPHILA ELEGANS

We sell large quantities of this pretty annual to florists who grow it for mixing with Sweet Peas and other flowers. It thrives in any garden soil and flowers freely in a much shorter time than is needed to perfect the old perennial kind. Sow at intervals where the plants are to flower. Any position or exposure suits it.

GYPSOPHILA ELEGANS. B. Pure white. Very graceful. Height 1½ ft. See also Perennials page 71..... Pkt. $0.05
Rosea. Height 1½ ft..... .05

HELIANTHUS. Ornamental double varieties of the well-known Sunflower. Good for backgrounds.
Californicus. Double. Height 6 ft..... .05
Cucumerifolius. "Stella." Single golden yellow with black center. Height 3½ ft..... .10
Globosus fistulosus. Double quilled. Height 6 ft..... .05
Nanus. Dwarf; double. Height 3 ft..... .05
HIBISCUS AFRICANUS. Yelllow, with dark center. Height 2 ft. See also Perennials..... .05
ICE PLANT (Mesembryanthemum crystallinum). White. Trailer..... .05
KAULFUSSIA AMELLOIDES (Cape Marguerite). B. Mixed. Height 1 ft..... .05

KOCHIA

The Summer Cypress is not so well known in California as in the East, where it is freely used for a hedge around gardens or to divide lots. The plant makes a globular head that in summer is green and in the fall turns to a deep red, which is most attractive. Very easily grown. Pkt.

KOCHIA (Summer Cypress)..... $0.10

LARKSPUR

The annual Larkspurs, though not so majestic looking as the perennial or herbaceous kinds, are among the prettiest of easily grown garden plants. They grow about 2 feet high and are favorites everywhere. Pkt.

LARKSPUR (Dwarf Rocket). Mixed. Height 2 ft..... $0.05
Emperor. Azure Blue. Height 2½ ft..... .05
Rose. Height 2½ ft..... .05
Tall Stock-flowered. Mixed. Height 2½ ft..... .05

LAVATERA

Pkt.
LAVATERA TRIMESTRIS. Red. Height 2½ ft..... $0.05
LIMNANTHES DOUGLASII. Sometimes called Yellow Nemophilia. Yellow. Height 1-3 ft..... .05
LINUM GRANDIFLORUM RUBRUM (Crimson Flax). Crimson. Unsurpassed for brilliancy and duration of bloom. Height 1 ft..... .05

LOBELIA

Everyone nows the blue Lobelia, formerly used so much for ribbon borders, but now more in favor for hanging baskets or pots. Dwarf and free flowering. The seed is extremely fine and must not be covered deeply.

LOBELIA. See also Perennials. Pkt.
Erinus erecta Gracivis Blue. Height ½ ft..... $0.10
Crystal Palace Compacts. Dark blue. Height 1-3 ft..... .10
Emperor William. Light blue. Compact. Height 1-3 ft... .10
Hamburgia. Blue Trailing..... .10

LOVE-LIES-BLEEDING (Amaranthus caudatus). Crimson. Height 2 ft..... .05
LUPINUS. See also Perennials.
Mixed Annual Varieties. B. Height 2 to 3 ft..... .05
Nanus. Dwarf, blue. Height ½ ft..... .05
MALOPE GRANDIFLORA PURPUREA. Reddish purple. Height 2 ft..... .05

MARIGOLD

AFRICAN MARIGOLD

CULTURE—Marigolds are hardy annuals and old favorites in our gardens. They are all showy, especially in masses. Sow the seed broadcast, or in rows in well spaded and finely prepared soil, covering not more than one-eighth inch deep, and thin out to 6 or 10 inches apart.

MARIGOLD. Favorite showy plants for mixed borders. See also Calendula. Pkt.
Germain **African.** Lemon-colored. Height 2 ft..... $0.05
Orange. Height 2 ft..... .05
Mixed. Height 2 ft..... .05
French. Mixed. Height 1 ft..... .05
French Dwarf Orange. Height 1 ft..... .05
Dwarf Striped. Height 1 ft..... .05
Legion of Honor. Golden Yellow, marked with velvety brown. Height ¾ ft..... .05

MATHIOLA BICORNIS

Mathiola bicornis, or the Night Scented Stock, is a delightful little plant for edgings or small borders. No one who grows it once, cares to be without it afterwards. Pkt.

MATHIOLA BICORNIS Purple; fragrant. Height ½ ft. $0.05

MESEMBRYANTHEMUM TRICOLOR (Dew Plant). For edge or rockwork. Purple, rose and white. Trailer.... .05

ANNUALS

MIGNONETTE

MIGNONETTE

CULTURE—This well known plant, is in fact a small annual shrub and grows wild on the sandy shore of Algiers. The name Mignonette is French and stands for "Little Darling." No garden should be without this sweet little plant. Sow in any good garden soil, deeply spaded, covering the seed its own depth and keeping moist.

	Pkt.
MIGNONETTE, SWEET. B. Greenish white. Height ½ ft	$0.05
Allen's Defiance. The best variety for forcing. Height 1 ft	.10
Golden Queen. Height 1 ft	.10
Germain **Machet.** Fine for pot culture. Height 1 ft.	.10
Miles' Hybrid Spiral. Very large spikes. Height 1 ft	.10
Parson's. White. Fine long spikes. Height 1 ft	.10
Ruby. Very floriferous	.10
Victoria. Red; very fine. Height 1 ft	.10
Mixed	.05

The 10 cent varieties are extra fine.

NEMOPHILA (Love Grove). Charming California annuals for borders.	
Insignis (Baby Blue Eyes). Beautiful sky blue. Height ½ ft	.05
Maculata. Large, white with purple blotch. Height ½ ft	.05
Fine Mixed. Height ½ ft	.05
NICOTIANA AFFINIS (Ornamental Tobacco). White and fragrant. Height 3 ft	.10
Sanderae. Pink. Large flowering hybrids, very showy, profuse bloomer, easily raised from seed	.10
Mixed. All colors	.10
NIGELLA (Love-in-a-Mist or Devil-in-the-bush). B. Singular flowers, the upper petals being reflexed to resemble horns.	
Damascena. Double. Lavender-blue. Height 1 ft	.05

NASTURTIUM

Singularly suitable for growing on poor sandy soils where few things thrive. The dwarf kinds will make a glorious display on a sand bank or any comparatively useless patch of soil, while the climbing or vining varieties run a wild riot over anything unsightly in the garden or are good for temporary summer shade on porches and verandas. Beside the showy blossoms, the foliage makes a piquant salad much liked by many people, while the seeds, if gathered green, are fine for pickling. A plant of so many points can hardly fail to be popular. Sow the seed an inch deep, where the plants are to remain, as it is not an easy subject to transplant.

	Pkt.
NASTURTIUM, TOM THUMB. (See also Climbing List.)	
Aurora (Terra-cotta). Height 1 ft	$0.05
Bronze. Distinct. Height 1 ft	.05
Chameleon. A fine variety producing different flowers on the same plant. Height 1 ft	.10
Cloth of Gold. Light scarlet, yellow foliage. Height 1 ft.	.05
Dark Crimson. Height 1 ft	.05
Germain **Empress of India.** Dark leaves and crimson flowers. Height ¾ ft	.10
Golden King. Dark foliage. Height 1 ft	.05
King of Tom Thumbs. Dark foliage, scarlet flowers. Height 1 ft	.05
King Theodore. Nearly black. Height 1 ft	.10
Ladybird. Orange-yellow, red spots. Height 1 ft	.10
Lilliput. A new and distinct class, in every respect smaller than the Tom Thumbs. Flowers of various colors. Height ½ ft	.10
Pearl. White. Height 1 ft	.05
Regalianum. Purplish violet. Height 1 ft	.05
Ruby King. Light ruby-red. Height 1 ft	.10
Scarlet. Height 1 ft	.05
Yellow. Height 1 ft	.05
Finest Mixed. Height 1 ft	.05

NASTURTIUM—TOM THUMB

	Pkt.
NEMESIA GRANDIFLORA STRUMOSA. Mixed. Sow in March in boxes or seed bed and transplant 6 inches apart each way. Height 6 inches	$0.25
NOLANA. Fine Mixed. Trailer	.05
OXYURA CHRYSANTHEMOIDES. Yellow, white. Ht. 1 ft.	.05
PANSY. (See page 73)	
PERILLA NANKINESIS. Hh. Very dark leaves. Height 1½ ft.	.05

DUTCH BULBS Afford the richest field for beautiful decorative effects for the least labor. Any woman will enjoy the care of these aristocratic plants and revel in the beauty of the waxy flowers and richness of perfume. We are the largest importers in the West, Ask for Special Bulb Catalogue and free treatise on Bulb Culture.

ANNUALS

PHLOX

CULTURE—Phlox is an extensive and interesting genus of invaluable hardy annuals, producing fine clusters of flowers in a variety of colors which includes white, pink, rose, purple, scarlet and a near approach to yellow. Some of the scarlets have pure white eyes and each year new varieties are added to the list. The only treatment required is to sow the seed where the plants are wanted to grow, and for perfection of flowers, thin out to one foot apart each way.

ONE OF OUR FIELDS OF PHLOX

PHLOX DRUMMONDII. Showy bedding plants.	Pkt.
Bright Scarlet. Height 1 ft.	$0.10
Chamois-rose. Height 1 ft.	.10
Double White. Height 1 ft.	.15
Pink. Height 1 ft.	.10
Red, with white eye. Height 1 ft.	.10
Rose, Striped White. Height 1 ft.	.10
White. Height 1 ft.	.10
Yellow. Height 1 ft.	.15
Fine Mixed. Height 1 ft.	.05
Germain **Large-flowering.** Fine mixed. Height 1 ft.	.10
Very Dwarf, Fireball. Brilliant scarlet. Height ½ ft.	.10
Very Dwarf, Extra Fine Mixed. Height ½ ft.	.10
Cuspidata (Star Phlox). Mixed. Height 1 ft.	.10
PLATYSTEMON CALIFORNICUS (Cream Cups). Yellow. Height 1 ft.	.05

PORTULACA

For exhibiting a display of dazzling brilliancy the Portulaca is unrivalled. It revels in sunshine, and will stand quite a degree of drought.

CULTURE—The Portulaca may well claim a prominent place in our garden. A large bed or border presents a gay appearance of dazzling brilliancy. They are best sown in February and March, as they grow with great rapidity in warm weather. Sow the seed very shallow in a sunny situation. Keep moist but never over water. See picture opposite column.

Single. Crimson. Height ½ ft.	.05
Scarlet. Height ½ ft.	.05
White. Height ½ ft.	.05
Yellow. Height ½ ft.	.05
Mixed. Height ½ ft.	.05
Double. Golden. Height ½ ft.	.10
Pink. Height ½ ft.	.10
Scarlet. Height ½ ft.	.10
White. Height ½ ft.	.10
Mixed. Height ½ ft.	.10

POPPY

CULTURE—There can be no stronger and better proof of the beauty of this flower than the extent to which the varieties are grown. No other flower will produce such gorgeous brilliancy for bedding purposes. Sow the seed in beds where it is required, as it does not transplant easily. Cover it its own depth. Keep moist and thin out to six or eight inches apart.

	Pkt.
Admiral. Single white, edged red.	$0.10
Carnation. Double white. Height 2 to 3 ft.	.05
Double Mixed. Height 2 to 3 ft.	.05
Danebrog. Scarlet, blotched white. Height 2 ft.	.05
French, or Ranunculus-flowered. Mixed. Height 2 ft.	.05
Mikado. White and crimson, double-fringed. Hgt. 2 ft.	.05
Miss Sherwood. The flowers are from 4 to 5 inches across, pure satiny white, tinged with chamois-rose. Height 2½ ft.	.10
Peony-flowered Fine Mixed. Height 2 to 3 ft.	.05
Shirley, Santa Rosa Strain. The best and most varied strain in existence, including the new striped salmon and bluish shades. Height 2 ft.	.10
Germain **Shirley, Mixed.** A distinct race, fine. Hgt. 2 ft	.05
Germain **Tulip** (Papaver glaucum) Scarlet. Hgt. 1¼ ft.	.10
Umbrosum. Scarlet-crimson. Height 1½ ft.	.10

(See also list of Perennials, page 75.)

RICINUS CAMBODGENSIS (Ornamental Castor Beans). Leaves and stems nearly black; very fine. Height 5 ft.	.05
Sanguineus. Blood-red foliage. Height 6 ft.	.05

PORTULACA, SINGLE

ANNUALS

SALPIGLOSSIS

(Painted Tongue)

SALPIGLOSSIS GRANDIFLORA

Not one amateur gardener in a hundred knows this splendid nnual, one of the most magnificent of all. The throat of the ower is beautifully lined and marked with rich velvety tints ke an exquisite Gloxinia, but the plants are so free flowering hat armsful of blossoms can be gathered daily from a small ed or border. They are graceful and exquisite, especially suitale for table decoration. Sow thinly where they are to bloom nd thin to 1 foot on poor soil and 18 inches on good. Try them his season. They like plenty of sun, which does not spoil the olor as in some other flowers.

	Pkt
ALPIGLOSSIS.	
Finest Tall Mixed. Height 1½ ft.	$0.10
Brown with gold. Height 1½ ft.	.10
Light blue. Height 1½ ft.	.10
Scarlet. Height 1½ ft.	.10
Violet. Height 1½ ft.	.10
ANVITALIA. Profuse-blooming trailing plants for beds. rockwork, etc. Sometimes called Trailing Sunflower.	
Double Yellow. Trailer	.05
Procumbens. Single Yellow. Trailer	.05
APONARIA CALABRICA (The Calabrian Pink or Soapwort). Pink. Height ½ ft.	.05

SCABIOSA

(Mourning Bride or Pin Cushion Flower)

CULTURE—No "old fashioned" flower bed is complete without his sweet and dignified flower; and alone it is a worthy addition o any garden. Free blooming, hardy annual. It succeeds in ny ordinary garden soil. Handsome flowers and fine for cutting. weet scented. An excellent border plant. Sow the seed ⅛ inch eep, keep moist, never water so much that soil becomes soggy.

	Pkt.
Azure Fairy. Delicate lavender. Height 2 ft.	$0.10
Tall Double. Flesh color. Height 2 ft.	.10
Rose. Height 2 ft.	.10
White. Height 2 ft.	.10
Mixed. Height 2 ft.	.05
Dwarf, Double Mixed. Height 1 ft.	.05

SCHIZANTHUS

The Schizanthus has been greatly improved by selection and hybridizing in recent years, and when gardeners awake to its many merits, it will increase rapidly in popularity. Not only are the flowers bright and telling, but the foliage is deeply cut and serrated like a fern, each plant forming as it were, a complete bouquet. It has been aptly termed the "Poor man's Orchid" as it closely resembles some of these aristocratic flowers. Sow in pots or boxes and transplant to good soil in the open, in May. Also fine for pot culture in the greenhouse.

	Pkt.
Pinnatus. Blue. Height 1½ ft.	$0.05
Finest Mixed. Height 1½ ft.	.05

SILENE

Used as a carpeting for bulbous plants in spring. There is no other annual plant so effective as Silene pendula compacta for this purpose. Sow in August or September. For summer blooming, sow in March.

	Pkt.
SILENE.	
Compacta. Double red. Height ¾ ft.	$0.05
Pendula compacta. Red. Height ¾ ft.	.05

	Pkt.
SUNFLOWER. (See Helianthus.)	
SWEET SULTAN. (See Centaurea.)	
SWEET PEAS. See pages 65, 66 and 67.	
TAGETES SIGNATA PUMILA. Yellow, striped brown, fine for bedding. Height ¾ ft.	$0 05
TORENIA FOURNIERI. T. A valuable plant for pots, baskets or borders. Violet, with lilac and yellow. Height ¾ ft.	15
VENUS' LOOKING-GLASS. Pretty bell-shaped flowers; blooming profusely, well adapted for edging and hanging-baskets. Blue. Height ¾ ft.	05
VIRGINIAN STOCK. Red, white and mixed. Height ½ ft.	05
VISCARIA COELI-ROSEA (Rose of Heaven). Pink. Height ¾ ft.	05
Elegans picta. Rose and scarlet. Height 1 ft.	05
Oculata. Rose, dark eye. Height 1 ft.	05
WHITLAVIA GRANDIFLORA. Violet. Height ½ ft.	05
Gloxiniodes. White and blue. Height ½ ft.	05

SCABIOSA

ANNUALS

STOCKS

These popular flowers are unrivalled for garden display and our strain of Giant Perfection is without doubt the finest obtainable, growing to a height of 2 feet, and producing long spikes of highly fragrant flowers and a larger percentage of double than any other strain grown.

CULTURE—For a splendid display in summer, sow in February and March, continuing to sow at intervals for a succession of bloom. Sow in June and July for winter cutting and even later than this in warm localities. The soil should be carefully prepared, three parts of light loam to one each of leaf mold and sharp sand, being an ideal mixture, though any good garden soil will do. Sift this and put the rougher parts in the bottom of the flats or pans. Then fill up with the finer part, allowing room for watering. Sow the seed thinly as a pinch of seed produces hundreds of plants. As soon as sown, cover with about one-eighth of an inch of fine soil and over this place a piece of burlap or old gunny sack and keep moist. Watch closely and remove the covering at once when the seedlings appear and gradually shift to sun to harden. In a few weeks, the little plants will be large enough to transplant.

STOCKS

	Height	Per Pkt.
Giant Perfection Ten-week.		
Fiery Crimson	2 ft.	$0.15
Flesh Color	2 ft.	.15
Rose	2 ft.	.15
Light blue	2 ft.	.15
Dark blue	2 ft.	.15
Yellow	2 ft.	.15
White	2 ft.	.15
Mixed	2 ft.	.10
Large Flowered Ten-week.		
Crimson	1 ft.	.10
Flesh	1 ft.	.10
Light blue	1 ft.	.10
Rose	1 ft.	.10
Yellow	1 ft.	.10
White	1 ft.	.10
Mixed	1 ft.	.10
Princess Alice.		
Cut and Come Again (white)	1½ ft.	.10
Wall-flower Leaved. White	1 ft.	.15
" " " Mixed	1 ft.	.15

ZINNIA

(Youth and Age)

GERMAIN'S MAMMOTH ZINNIA

The Zinnia is so easily grown that it is apt to be left alone after sowing, to look after itself, and this it will do to an extent that is quite surprising. But give it the same attention that is given to other and less valuable flowers and there is nothing that can equal it for gorgeous beauty. Our Mammoth strain produces flowers as large as the finest Dahlias, magnificent in petalage and of the brightest imaginable coloring. To get this splendid effect, prepare the soil with care and use plenty of well decayed manure, which must be well incorporated as the digging proceeds. Then sow the seeds where they are to flower. The finest Zinnias are always from plants that have not been transplanted. Thin to 18 inches apart or less, if the soil is poor. Cultivate the ground between the plants regularly, give water in abundance in dry weather and grand results will be obtained. The flower lasts a long time looking cheerful until the seed is quite ripe. The fact of the flowers remaining so long perfect has given the plant one of its common names "Youth and Old Age."

There is no better strain of Zinnias in existence than that offered.

NOTE

In our constant endeavor to give our thousands of customers the very best that can be produced we have taken over the management of a Flower Seed farm. Under our supervision the Victor Johansen Seed Co. is growing the finest stock of seeds to be had as may be seen by planting a plot of our MAMMOTH STRAIN ZINNIAS.

	Pkt.
Germain **Mammoth Strain.** Flowers of gigantic size, grown at the Victor Johansen Seed Farm.	
Double Mixed Colors. Height 3 ft.	$0.15
Double Mammoth. Individual colors.	
Crimson	.25
Scarlet	.25
White	.25
Yellow	.25
Dwarf. Double mixed. Height 1 ft.	.05
Haageana, fl. pl. Double yellow. Height 1 ft.	.10
Zinnia Elegans. Finest double mixed. Height 2 ft.	.05

CARDINAL CLIMBER (Ipomea Hybrida)

Do not forget to order a package of this beautiful annual climber. It is one of the most striking climbers yet introduced. Grows to a height of 30 feet with attractive green foliage covered with a blaze of bright cardinal red flowers. A warm, sunny locality is best. Soak the seed in hot water over night, sow in boxes and transplant. Price per packet, 15c.

SEEDS OF CLIMBING PLANTS

Nothing lends such a charm to the home as vines and climbers. A vine clad porch or veranda on a hot day is a pleasant place. Vines soften ugly, hard lines in architecture, hide unsightly things in the garden, are beautiful in or out of flower and cannot be too freely planted. Many of the dwarfer kinds are nice for hanging baskets or for clothing parkways. Others are good for scrambling over old dead trees or posts. In short, there is no garden, no matter how small, in which vines do not play an important part in the scheme of decoration.

A—Annual **P—Perennial**

COLLECTIONS (Our Selection)

12 Beautiful Varieties, Climbing and Trailing Plants $0.50
6 Beautiful Varieties Climbing and Trailing Plants $0.25

Passion Flowers

4 Elegant Varieties $0.50

Pkt.

ADLUMIA CIRRHOSA. P. The graceful Allegheny Vine; also Mountain Fringe. Pink. Height 8 ft $0.10

AMPELOPSIS VEITCHI

This is the well known Boston Ivy, a plant known from coast to coast. It clings with great tenacity to anything within reach of the little tentacles, produced from the stem. In summer, the foliage is deep green; in autumn it turns to the most delightful tints. The seed may be sown at any time of the year.

AMPELOPSIS. Veitchii (Japan Ivy). P. Height 50 ft ... .10

ANTIGONON LEPTOPUS

Planted in a sunny location, where it can ramble at will, there is not a more beautiful plant in existence than the Mexican Rosa de Montana. Nearly always in flower; the blossoms are like those of an elegant rosy pink Begonia, but borne in the greatest profusion all over the plant. Will not thrive in a shady position. While usually considered tender, this vine stood through the severe frosts of 1912-1913.

ANTIGONON LEPTOPUS ..... .15

ARISTOLOCHIA (The Dutchman's Pipe Vine)

There are several fine climbers in this genus, but the two we offer are perhaps the finest of all. A. elegans is the newer of the two and is a twiner with small leaves and gorgeously colored flowers, freely produced. It has none of the unpleasant odor complained of in the older Aristolochias. A. Sipho is not so remarkable for its flowers, but the foliage is grand, its great leaves of the deepest green being among the finest things known in horticulture.

ARISTOLOCHIA ELEGANS. Hhp. Chocolate and purple. Height 30 ft ..... .10
Sipho (Dutchman's Pipe). P. Very odd-looking and interesting. Yellow and brown. Height 40 ft ..... .10
AUSTRALIAN PEA VINE. See Dolichos lignosus.
BALLOON VINE. Hha. Bears a pretty, inflated capsule. White and green. Height 8 ft ..... .05
BIGNONIA (Trumpet Vine). P. Sometimes classed with Tecoma. Robust, hardy. Very ornamental.
Radicans. Orange-scarlet. Height 15 ft ..... .10
Tweediana. Bright Yellow; evergreen. Height 20 ft ... .10
CANARYBIRD FLOWER (Tropoeolum peregrinum). Hha. A charming annual vine with delicate foliage. Flowers yellow. Height 8 ft ..... .10
CARDINAL CLIMBER. Height 30 ft ..... .15

CLEMATIS

The beauty of the Clematis or Virgin's Bower is well known, but the plants are not as freely used as they ought to be. The new hybrid forms give a variety of color and size, some magnificent things having appeared among them, but there is not a single Clematis of any sort or kind that is not well worth its place in any garden The seed takes a long time to germinate.

CLEMATIS. White ..... .10
Jackman's New Hybrids. Mixed. Height 10 ft ..... .25
Paniculata. Hardy perennial, massed with sweet scented white flowers ..... .10
Viticella. Purple. Height 10 ft ..... .10

CLIANTHUS PUNICEUS (New Zealand Parrot's Bill). P. A very handsome climber. Bright scarlet. Hgt. 6 ft .15
COBAEA. P. Rapid-growing bell-shaped flowers.
Alba. White. Height 20 ft ..... .10
Macrostemma. Yellowish green, tipped with violet; stamens of enormous length. Height 15 ft ..... .15
Scandens. Purple. Height 20 ft ..... .10
CONVOLVULUS. A. The well-known Morning-Glories.
Aureus superbus. Yellow. Very fine, rare. Hgt. 8 ft. .15
Major, Blue. Height 10 ft ..... .05
Crimson. Height 10 ft ..... .05
Double. White-veined purple. Height 10 ft ..... .10
Pink. Height 10 ft ..... .05
Striped. Height 10 ft ..... .05
White. Height 10 ft ..... .05
Mixed. Height 10 ft ..... .05
CYPRESS VINE (Ipomoea quamoclit). Hha. Well-known climbers, with handsome delicate foliage.
Scarlet. Height 8 ft ..... .05
White. Height 8 ft ..... .05
Mixed. Height 8 ft ..... .05

DOLICHOS LABLAB. Hha. Mixed. Height 8 ft $0.05
Lignosus alba ..... .10
Lignosus (Australian Pea). P. Rose and purple; one of the best climbers for a hot, dry climate. Height 15 ft ... .05
ECCREMOCARPUS SCABER. P. Orange; very valuable to cover trellises. Height 6 ft ..... .10

HUMULUS (Hop Vine)

The Hop Vine is one of the quickest growers that we have and very beautiful. It rapidly covers arbors, fences or porches and is beautiful even when allowed to ramble at will about a pole or dead tree stumps. Sow in spring where plants are needed.

HUMULUS.
Japonicus (Japanese Hop). A. Height 20 ft ..... .10
Japanese Variegated ..... .10
Lupulus (Common Hop) ..... .10
IMPERIAL JAPANESE MORNING GLORY. Hha. Mixed, all colors. Very large. Height 30 ft ..... .10

IPOMOEA MEXICANA ALBA

Pkt

IPOMOEA, HEAVENLY BLUE. Hha. Light blue. Hgt 15 ft $0.10
Leari (Blue Moon-flower). P. Splendid. Height 25 ft ... .10
Mexicana grandiflora alba (True White Moon-flower). Hhp. Height 30 to 40 ft ..... .15
KENNEDYA BIMACULATA GRANDIFLORA. P. Purple. Height 10 ft ..... .15
KUDZU VINE P. (Pueraria Thunbergiana). Recently introduced from Japan. One of the most rapid-growing vines known. Will grow 50 feet in one season. The leaves are very large, making it a suitable plant for covering arbor, trellis, etc. Slow in germinating, soak seed in hot water over night. Flowers are pea-shaped and rosy purple in color ..... .10
LATHYRUS LATIFOLIUS (Everlasting Pea). P. Mixed, rose and white. Height 6 ft ..... .05
LOASA AURANTIACA (the Chilean Nettle Plant). Hha. Has beautiful, interesting golden yellow flowers. Must be handled with gloves, as the leaves sting. Height 6 ft ..... .10

SEEDS OF CLIMBING PLANTS

LONICERA TARTARICA (Tartarian Honeysuckle). P. Rose. Height 6 ft. — Pkt. $0.10
MANDEVILLEA SUAVEOLENS (Chili Jasmine). P. Very fragrant. White. Height 15 ft. — .10
MAURANDIA. White. Hhp. Height 8 ft. — .10
Purple. Height 8 ft. — .10
Fine Mixed. Height 8 ft. — .10

MINA LOBATA

One of the prettiest vines. An annual that usually reproduces itself from seed when planted. The blossoms are elegant, yellow and red and produced with the greatest freedom. Not sufficiently known. Try it.

MINA LOBATA. Red, yellow and white. Height 15 ft. — .10

NASTURTIUM (Tall)

Thrives well in poor soil and covers quickly fences or bare spots in the landscape. The remarks on the dwarf varieties under "annuals" are also applicable to the tall ones.

NASTURTIUM, TALL, CHAMELEON. A new variety, has flowers of different colors on same plant. Hgt. 6 ft. — Pkt. $0.10
Dark Crimson. Height 6 ft. — .05
Edward Otto. Brownish lilac. Height 6 ft. — .05
Heinemanni. Chocolate-color. Height 6 ft. — .05
Germain **King Theodore.** Dark maroon, with dark leaves; extra fine. Height 6 ft. — .05
Orange. Height 6 ft. — .05
Pearl. Creamy white. Height 6 ft. — .05
Regalianum. Purplish violet. Height 6 ft. — .05
Scarlet. Height 6 ft. — .05
Vesuvius. Salmon-rose, dark-leaved; splendid. Hgt. 6 ft — .10
Yellow. Height 6 ft. — .05
Finest Mixed. Height 6 ft. — 05

PASSION FLOWER.

PASSIFLORA

The well known Passion Flower, a splendid climber, thriving anywhere. The flowers are produced with great freedom all along the vine and while there is a great variety of colors, every one is beautiful.

PASSIFLORA COERULEA. P. Blue. Height 8 ft. — Pkt. $0.10
Edulis. P. Mauve; edible fruit. Height 8 ft. — .10
Rosacea (incarnata). Tall; rose-pink. — .25
White. Hhp. Three-angled stem; edible. Height 8 ft. — .10
Fine Mixed. Height 6 to 8 ft. — .10

PHASEOLUS CARACALLA (Snail Vine). Hhp. Lilac-purple and white; very beautiful and interesting. Height 8 ft. — .10
SMILAX. P. White; very useful for festooning, etc. Height 6 ft. — .10
SOLLYA HETEROPHYLLA (Climbing Bluebell). Hhp. A pretty climber, with charming intense blue flowers. Height 6 ft. — .15

TACSONIA

This resembles the Passion Flower but is if anything more ornamental. The growth is extra robust and the large flowers hang pendant from it, making it especially suitable for arbors or roofs of porches. The colors are variable, but usually some shade of red, scarlet shades being extremely telling and effective.

TACSONIA (Ignea). Red. — Pkt. $0.25
Pink. — .25
Mixed. Height 6 ft. — .10

THUNBERGIA ALATA

One of our most frequent inquiries is "What is the best vine for windows and hanging baskets?" Thunbergia alata fills the bill. It has deep green leaves on scandent stems and the flowers are yellow or buff, with deeply colored eyes. One of the very best.

THUNBERGIA ALATA. Hha. Free bloomer of rapid growth; flowers of white and yellow shades, with striking black centers. Mixed, white and yellow. Height 6 ft. — Pkt. $0.10

TROPAEOLUM. A. Useful climber, which may be pegged down and used for bedding purposes. May also be grown in pots for winter flowering.
Lobbianum, Spitfire. Vivid scarlet. Height 6 ft. — .05
Finest Mixed. All colors. Height 6 ft. — .05

WISTARIA (for Vines, see page 100)

WISTARIA SINENSIS. P. A charming old-fashioned hardy climber, producing its pale blue flowers in large clusters in early spring. Light blue. Height 50 ft. — Pkt. $0.15

SWEET PEAS

CULTURE—Sweet Peas should be sown about three inches deep and require an abundance of water—but do not sprinkle the vine. eep the flowers picked and do not allow them to run to seed or they will soon stop flowering.

The character of these flowers is of healthy and vigorous growth and quite distinct from the standard sorts. They are very arge, measuring from 2 to 2½ inches across with large frilled and wavy standards. Three and four of these beautiful flowers e borne on one good long stem, making them unsurpassed for vases and other decorative flower work.

GIANT WAVED SPENCER VARIETIES

	Pkt.	Oz.
MERICA. Red and white striped	$0.10	$0.30
PPLE BLOSSOM. Rose and blush	.10	.30
STA OHN. Lavender, tinted mauve	.10	.30
LACK KNIGHT. Shining deep maroon	.10	.30
LANCHE FERRY. Pink and white	.10	.30
OUNTESS SPENCER. Light pink, shading darker towards the edges	.10	.30
AINTY SPENCER. White, edged pink	.10	.30
LFRIDA PEARSON. Blush pink	.10	.30
LORA NORTON. Clearest and most pronounced blue	.10	.30
LORENCE MORSE. Dainty pink over white, edged pink	.10	.30
LORENCE NIGHTINGALE. Clear lavender	.10	.30
ELEN LEWIS. Standard orange, wings salmon	.10	.30
ING EDWARD SPENCER. Carmine scarlet	.10	.30
MAUD HOLMES. Select sunproof crimson	$0.10	$0.30
MRS. C. W. BREADMORE. Buff with a rosy picotee edge	.10	.30
MRS. HUGH DICKSON. Buff and apricot pink	.10	.30
MRS. ROUTZHAN. Rose apricot, deeper in color, if partially shaded	.10	.30
OTHELLO. Rich, deep maroon	.10	.30
PASADISE IVORY. Ivory white, with a slight tinge of buff	.10	.30
PRIMROSE SPENCER. The color is a pronounced creamy yellow, with beautiful crinkled wings	.10	.30
QUEEN ALEXANDRA. Brightest crimson scarlet	.10	.30
STERLING STENT. Glowing salmon orange	.10	.30
TRIUMPH. Salmon pink, bi-color waved	.10	.30
WHITE. Best pure white, beautifully waved	.10	.30

SPENCER MIXED. 20 cents per oz.; 75 cents per ¼ lb.; $2.00 per lb.

GROW THE EXHIBITION VARIETIES OF

New Giant Spencer Sweet Peas

PRICE:

15c. per pkt. 60c. per oz. Unless Otherwise Noted

Whole Collection of 16 pkts., $1.50

Agricola—Blush Pink. The largest and loveliest Spencer: long stems and an exquisite rose-blush.

Constance Hinton—Pure White. Extra large-frilled and one of the latest novelties.

Dobbies Cream. This is undoubtedly the best cream Spencer grown; beautifully waved large flowers.

Fiery Cross. A scorching fiery red color exquisitely waved and will not burn or fade during intense sunshine. Per oz. $1.50.

Hercules—Rose Pink. Immense flowers, long stems and a beautiful, rich, clear, rose color, very vigorous and a free bloomer.

Illuminator. A glowing cerise-salmon with an indication of bright orange, which glistens in the sunlight. Flowers large and wavy. This is the most beautiful of the many new Spencers.

Inspector. Duplex, glowing orange-salmon.

King White. The best Spencer White ever produced.

Leslie Imber. Deep pinkish lavender flowers of large size, much waved and long stems.

Margaret Atlee. A rich glowing pink softly suffused with salmon. Flowers extraordinary size, exquisitely waved and freely produced on long stems.

Mrs. Cuthbertson. Rose pink, wings pink white.

Miriam Beaver. Finest shell-pink, large and ruffled.

Nubian. A new deep maroon, self-colored and of great merit. Giant flowers beautifully waved.

Rosabelle. Undoubtedly the largest deep rose yet produced. Flowers much waved and crimped.

Scarlet Emperor. A vermilion brilliant, beautifully waved, surpassing all other scarlets in color and size.

Wedgewood. A clear azure blue of fine form, beautifully waved, immense flowers. Newest and best blue.

SUNSET COLLECTION SWEET PEAS

Few flowers repay the grower so bountifully or so richly as the sweet pea. Fom early spring, which in California is in February, until well through the summer this graceful, climbing annual will furnish a most gorgeous display along the dead walls, and provide a fragrant, beautiful indoor decoration. The unusual popularity of our "Sunset Collection" establishes it as the most successful collection on the market, and the prospective demand for this season has been provided for with almost carefully selected stock. The colors in this group are each so distinct that the seven varieties provide as varied an assortment as anyone could wish, and their giant size makes them preeminently attractive.

The "Sunset Collection" is put up with each color in a separate package, and a liberal quantity of seed is offered at the attractive price of 50 cents.

"Sunset," Lavender—A beautiful shade of dainty lavender, open and wavy.

"Sunset," Orange Rose—Large wavy wings of the Spencer type.

"Sunset," Pink—A beautiful flower.

"Sunset," Primrose Buff—Large wavy flowers, deep cream or primrose colored.

"Sunset," Scarlet Brilliant—A most gorgeous flower with wavy standards and drooping wings. The choice of the scarlets.

"Sunset," Purple Striped on White—Mottled and striped on white ground.

"Sunset," White—An exquisite pure white, the finest of the Spencer forms. Large open waved lasting flowers.

Germain
WHITE
SPENCER SWEET PEAS

SWEET PEAS

GRANDIFLORA VARIETIES, LEADING SORTS

AMERICA. White ground, striped with blood red.
APPLE BLOSSOM. White, suffused with rosy carmine.
BLANCHE FERRY. Pink and white.
BOLTONS PINK. Orange pink.
COUNTESS OF CADOGAN. First blossoms have purple standards, which turn to a clear bright blue.
COUNTESS OF RADNOR, IMPROVED (New Countess). Pure light lavender; very large.
DOROTHY ECKFORD. One of the largest and purest whites.
EVELYN BYATT. Orange rose.
FLORA NORTON. Bright blue.
GORGEOUS. Bright orange-salmon wings, orange red.
HON. MRS. E. KENYON. Primrose-yellow.
HON. F. BOUVERIE. Standard coral pink, wings flesh pink.
KING EDWARD VII. Bright crimson, large flowers.
LADY GRISEL HAMILTON. Delicate silvery lavender.
MAID OF HONOR. White and lavender, edged blue.
MODESTY. A very soft and delicate pale pink.
NAVY BLUE. Deep blue.
OTHELLO. Deep maroon, very large.
PRIMA DONNA. Soft rose-pink; extra fine.
QUEEN ALEXANDRA. Deep scarlet.
SYBIL ECKFORD. Buff and pink.

The above varieties, separate colors, packet 5 cents, dozen packets 50 cents, ounce 15 cents, ¼ pound 35 cents, pound $1.25. The whole collection of twenty-one varieties, one packet of each, postage paid for 75c.

CALIFORNIA LARGE-FLOWERING MIXED. From named varieties. Packet 5 cents, ounce 15 cents, ¼ pound 35 cents. pound $1.00.

GERMAIN'S SPECIAL LIGHT MIXTURE. Including only light and bright colors. Same price as above.

WAVED UNWYN TYPE

	Pkt.	Oz.
A. J. COOKE. Violet mauve	$0.10	$0.25
CHRISSIE UNWYN. Vivid scarlet	.10	.25
E. J. CASTLE. Carmine rose, shaded salmon	.10	.25
FRANK DOLBY. Light lavender	.10	.25
GLADYS UNWYN. Lovely light pink	.10	.25
MRS. ALFRED WATKINS. Pale pink	.10	.25
NORA UNWYN. Pure white, large flower	.10	.25
PHYLLIS UNWYN. Rosey carmine	.10	.25

Collection of the above 8 varieties, 35 cents.

CHRISTMAS VARIETIES

	Pkt.	Oz.
ANGELENO. Flesh pink, self	$0.10	$0.25
BLANCHE FERRY. Extra early pink and white	.10	.25
EARLIEST OF ALL. Pink and white	.10	.25
EARLIEST SUN-BEAMS. Primrose yellow	.10	25
FLAMINGO. Crimson red	.10	.25
FLORENCE DENZER. Pure white	.10	.25
METEOR. Crimson scarlet	.10	.25
MONT BLANC. Pure white	.10	.25
MRS. ALEXANDER WALLACE. Lavender	.10	.25
MRS. F. J. DOLANSKY. Rose pink	.10	.25
MRS. GEO. LEWIS. Pure white waved	.10	.25
MRS. WM. SIM. Salmon pink	.10	.25
CHRISTMAS MIXED. 15 cents oz.; $1.50 per lb.		

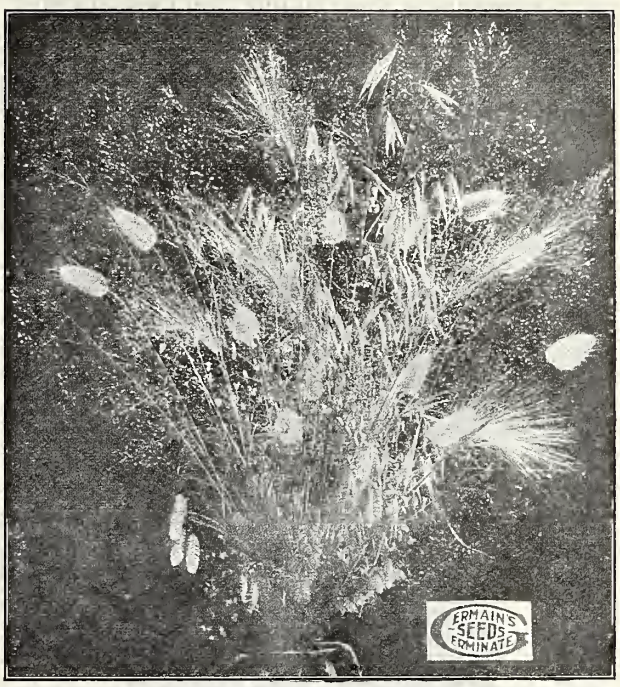
NEW GIANT WINTER SPENCER

	Pkt.		Pkt.
Apricot Pink	$0.25	White	$0.25
Brilliant Red	.25	Yarrawa	.25
Rose Pink	.25	Mixed	.25

For description of these wonderful early flowering Spencers, see our Bulb Catalogue.

FARMOGERM inoculation will add greatly to your supply of Sweet Pea blooms. Garden size 50 cents. Ask for booklet.

ORNAMENTAL GRASSES



ORNAMENTAL GRASSES

Most of these, if cut before they are quite ripe, will be useful in winter bouquets or with everlasting flowers.

A. Annual. P. Perennial. Sow in boxes in February or March; when large enough, transplant.

	Pkt.
AGROSTIS NEBULOSA. A. Very graceful and fine for vases or bouquets. Height 1 ft	$0.10
Pulchella. A. Very graceful and fine for vases and bouquets. Height 1 ft	.10
BRIZA MAXIMA. A. Large. Height 1½ ft	.05
Gracilis (Quaking Grass). A. Slender; fine for bouquets. Height 1 ft	.05
COIX LACHRYMA. Job's Tears	.05
ERAGROSTIS ELEGANS (Love Grass). A. Has beautiful dancing spikelets; good for bouquets. Height 1 ft	.05
EULALIA JAPONICA (Japan Plume Grass). P. Very effective in groups. Height 6 ft	.10
FESTUCA GLAUCA. P. Very neat and compact; fine for edgings to ribbon beds and borders. Height ½ ft.	.10
Procumbens. P. Very neat and compact; fine for edgings to ribbon beds and borders. Height ¼ ft	.10
ISOLEPIS GRACILIS. P. Very pretty rush-like grass for hanging baskets and pot culture. Height 1 ft	.10
LAGURUS OVATUS (Hare's Tail Grass). Fine for bouquets. Height 2 ft	.05
LASIAGROSTIS ARGENTEA. P. Very graceful and fine for bouquets. Height 3 ft	.10
RAINBOW MAIZE. Striped in four colors, very ornamental for large clusters. Height 4 ft	.25
STIPA PENNATA (Feather Grass). P. Universally admired in bouquets. Height 2 ft	.10
TRICHOLAENA ROSEA. P. Very pretty, with rose-colored panicles. Height 3 ft	.10
UNIOLA LATIFOLIA (Sea Oats). P. Very ornamental. Height 4 ft	.10
ZEA JAPONICA FOL. VARIEGATA (Striped Japanese Maize). Hha. Very ornamental. Height 4 ft	.05

EVERLASTING FLOWERS : ORNAMENTAL GOURDS

Collections

OUR SELECTION

6 Fine Packets.	Value 40 cents	$0.25
10 Fine Packets.	Value 80 cents	.50
15 Fine Packets.	Value $1.15	.75

HELICHRYSUM, DOUBLE

These are greatly admired and highly prized for winter bouquets. They should be cut when partially expanded, and hung with the heads downward until thoroughly dry.

	Pkt.
ACROCLINIUM. Single, white. Height 1 ft	$0.05
Pink. Height 1 ft	.05
Mixed. Height 1 ft	.05
Pink, double. Fifty per cent double flowers. Height 1 ft	.10
White, double, 50 per cent double flowers. Height 1 ft	.10
Mixed, double	.10
AMMOBIUM ALATUM. White. Height 1 ft	.05
GLOBE AMARANTHUS. Purple. Height 1 ft	.05
Flesh	.10
Rose	.10
White. Height 1 ft	.05
Fine mixed. Height 1 ft	.05
GNAPHALIUM LEONTOPODIUM. White. Height ½ ft. The true "Alpine Edelweiss."	.15
HELICHRYSUM (Straw Flower). Height 2 ft.	
Fireball, double	.10
Pink, double	.10
Salmon-rose, double	.10
White, double	.10
Yellow, double	.10
Mixed, double, (see cut)	.10
RHODANTHE. Mixed. Height 1 ft	.10
XERANTHEMUM. Double, mixed. Height 2 ft	.05

Collections

OUR SELECTION

6 Fine Varieties.	Value 40 cents	$0.25
10 Fine Varieties.	Value 80 cents	.50
17 Fine Varieties.	Value $1.50	1.00

	Pkt.
ABOBRA VIRIDIFLORA. Greenish flowers; a tuberous perennial gourd, with pretty scarlet fruits. Height 6 ft	$0.10
BRYONOPSIS LACINIOSA ERYTHROCARPA. Very ornamental, with pleasing cut foliage, and bright colored fruits. Height 5 ft	.10
CUCUMBER SNAKE (Cucumis flexuosus). Height 6 ft	.10
Germain **Wild.** Very curious. Height 4 ft	.10
GOURD. Bottle-shaped. White flowers. Height 10 ft	.10
Calabash-shaped. Height 10 ft	.10
Dipper. Height 10 ft	.05
Germain **Dish Rag.** When properly prepared this is very serviceable in many ways. Height 6 ft	.10
Egg Shaped. "Nest Egg." Height 10 ft	.05
Gooseberry. Smallest. Height 10 ft	.10
Hercules Club. Fruits 7 to 8 ft. in length. Height 15 ft.	.05
Orange Shaped. (Mock Orange). Height 15 ft	.10
Pear Shaped. Height 10 ft	.10
Serpent (Trichosanthes Colubrina). Very long and coiled. Height 10 ft	.10
Sugar Trough. Enormous, holding several gallons. Height 15 ft	.05
FINEST MIXTURE	.05
MOMORDICA BALSAMINA. "Palsm Apple" Heigst 6 feet	.10
Charantia. "Balsm Pear." Height 5 ft	.10

The Momordicas are very handsome. The frutis burst when ripe, exposing bright orange-sbarlet interior, which resembles a handsome flower

PERENNIALS

Plants of many perennials may be had. See Nursery Department.

The very word "Perennial" conjures up old time memories of old fashioned plants, lovely old gardens with borders, semi-neglected, perhaps, but always overflowing with flowers; gardens where one can cut sheaves and armfuls of flowers without their being missed, where every day in the year, there is something new. Giant blue Larkspurs look over garden walls or fences; Lilies invite one into the garden by their grateful perfume, while in the spring, the tender shoots pushing through the soil are almost as beautiful and equally interesting as the flowers. In autumn, Chrysanthemums, Dahlias, Asters and Foxgloves brighten the shortening days, while even the decaying foliage of those which have been so glorious during the summer is not without its charm. This is not the place for the tidying up gardener. It is "Grandmother's Garden", a garden of sweet things, of memories, of beauties unknown to those who only look for glaring displays and hard color outlines. And all these can be had by anyone who will take the little trouble to plant a few seeds, for nearly all these precious plants can be raised from seed, as easily as a pansy. Especially in the Southland, is this phase of gardening neglected, just where it ought to be most popular.

COLLECTIONS

12 Fine Varieties of Perennial Flower Seeds ..... **$0.50** **6 Fine Varieties of Perennial Flower Seeds** **$0.25**

Price $1.50 Hardy Perennial Collection Value $2.00

ANEMONE CORONARIA. Mixed. Height 1½ ft.
ANTIRRHINUM (Snapdragon). Mixed colors. Height 2 ft.
AQUILEGIA (Columbine). Mixed best varieties. Height 2 ft.
CENTAUREA CANDIDISSIMA (Dusty Miller). Height 1½ ft.
COREOPSIS LANCEOLATA. Bright gold. Extremely desirable. Height 2 ft.
DELPHINIUM ELATUM (Bee Larkspur). Mixed blue. Hgt. 2ft.
DIGITALIS (Foxglove). Best variety, handsome markings, 3 ft.
DIANTHUS (Hardy Pinks), 3 packets. Three different varieties of rich and handsome colorings. Height 1 ft.
FRAXINELLA (Burning Bush). Height 2 ft.
FRENCH HONEYSUCKLE. Red and white mixed. Hgt. 3 ft.
GAILLARDIA (Blanket Flower). Finest mixed. Height 2 ft.
HONESTY. An old fashioned flower with a curious seed pod. Flowers pink, purple and white. Height 1½ ft.
IPOMOPSIS (Texas Plumes). Scarlet and gold. Height 3 ft.
HUNNEMANNIA (Yellow Tulip Poppy). With crinkled petals. Height 2 ft.
MARVEL OF PERU (Four o'clock). Large flowering mixed. Two ft.
PENTSTEMON GRANDIFLORA. Finest mixed. Height 2 ft.
PYRETHRUM ROSEUM. Single finest mixed. Height 2 ft.
ROSE CAMPION (Agrostemma Coronaria). Crimson flowers. Height 1½ ft.
SWEET ROCKET (Dame's Violet). Sweet scented mixed, 1½ ft.
SWEET WILLIAM. Finest varieties single and double mixed. Height 1½ ft.
VINCA (Periwinkle). Mixed colors. Height 2 ft.
WALLFLOWER. Fragrant. Finest varieties mixed. Hgt. 2 ft.

ALYSSUM SAXATILE

Must not be confounded with the Sweet Alyssum. A lovely plant with golden yellow flowers so profusely produced as to completely hide the plant. Grows anywhere. Pkt.

ALYSSUM SAXATILE. B. Beautiful yellow. Hgt. ¾ ft. **$0.05**
ANCHUSA CAPENSIS (Cape Alkanet). B. Azure-blue. free-blooming biennial. Height 1½ ft. .05
ANEMONE CORONARIA (Windflower). Beautiful, early spring-flowering plants. Mixed. Height ½ ft. .10

ANTIRRHINUM

The old-fashioned Snapdragon, one of the heardiest and best perennials, flowering the first year from seed. The colors are now rich and varied, the habit tall or dwarf, as indicated below—an indispensable plant.

ANTIRRHINUM (Black Prince). Nearly black; semi dwarf. Pkt.
Very fine **$0.10**
Golden Queen. Semi dwarf ..... .10
Silvery Pink ..... .10
Dwarf, Mixed. Height 1 ft ..... .05
Germain **Majus.** Tall, mixed. Height 2 ft ..... .05
Giant Firefly. Brilliant scarlet. Height 2 ft ..... .10
Giant Rose. Height 2 ft ..... .10
Giant White. Height 2 ft ..... .10
Giant Yellow. Height 2 ft ..... .10
Giant Victoria. Pure white. Height 2 ft ..... .10
Tom Thumb, Mixed. Height ¾ ft ..... .05

AQUILEGIA

The old-time Columbine, a delightful plant in every respect, native to America, but much improved by cultivation and selection. Our Rocky Mountain Columbine is one of the finest of all, with its long caudate spurs and charming coloring. Every color is represented in such lovely combinations as to win the admiration of all. **See page 50 for picture.**

AQUILEGIA (Chrysantha). Yellow. Height 2 ft ..... .10
Coerulea (Colorado State Flower) ..... .15
Double Mixed Hybrids. Very fine. Height 2 ft ..... .10
Single Mixed. Height 2 ft ..... .05

ARABIS ALPINA

One of the first flowers of spring, better known as "Snow on the Mountain". Comes easily and freely from seed and produces a white sheet of flowers, fragrant and delightful. Fine for rock-work.

ARABIS ALPINA White. Height ½ ft ..... .05
ARMERIA. The Sea Pink, an edging plant without an equal; fine foliage even after the flowers are gone, always attractive ..... .10
ASPARAGUS SPRENGERI. A fine ornamental plant for hanging baskets ..... .10
Plumosus. A fine pot-plant; 100 seeds 85 cents ..... .10
ASPERULA ODORATA (Woodruff). White; very fragrant. Height ½ ft ..... .10
ASTER (Michaelmas Daisy). Perennial varieties, finest mixed. Height 3 ft ..... .10
AURICULA. Finest English hybrids; from the finest collection. Fine deep colors, variously margined. Good for pot culture. Height ½ ft. ..... .25

BEGONIA

The tuberous rooted Begonia is one of the finest greenhouse plants. Sow in early spring, in fine sterilized soil, leaf-mold and sand. Cover the seeds very slightly and place a sheet of glass over each pan or flat until the young plants are up. Prick off singly as soon as large enough to handle and place in small pots when ready, potting into the larger sizes as they fill the smaller with roots. The tuberous Begonia is also good for bedding in a semi-shaded position, but will not stand the full sun. The fibrous rooted kinds do better with more light.

BEGONIA. T. Double. Tuberous-rooted, mixed. Hgt. 1½ ft **$0.50**
Single. Tuberous-rooted, splendid mixed. Height 1½ ft .50
Germain **Luminosa.** Extra fine for bedding or borders .. .25
Prima Donna. Pink, fine pot plant ..... .25
Semperflorens. Finest of the more hardy bedding Begonias .25

PERENNIALS

For Plants See Nursery Department

BELLIS PERENNIS. The popular Double English Daisy. Very useful for edgings. Pkt.

Germain **Double Red.** Height ¼ ft. $0.10
Longfellow. Large, double rose. Height ¼ ft. ..... .10
Rose, Mammoth ..... .15
Quilled. Double mixed, fine. Height ¼ ft. ..... .15
Snowball. Double white. Height ¼ ft. ..... .10
Mixed Double. Fine. Height ¼ ft. ..... .10

CACTUS. Saved from the best and most distinct species. Finest mixed. Height ½ to 4 ft. ..... .15

CAMPANULA

This includes the Bell Flowers and the delightful old Canterbury Bells. Easily grown, free flowering plants that can be raised from seed in less than six months. Sow in August for spring flowering and again in the spring.

CAMPANULA (Bellflower). (See also Canterbury Bells.) Pkt.
Carpatica. Blue. Height ½ ft. $0.05
Pyramidalis. Blue. Height 3 ft. ..... .05

CANNA. Handsome plant for lawn decorations and for backgrounds. Soak seed in tepid water twenty-four hours before sowing.
New French Hybrids. Mixed. Height 4 ft. ..... .10

CANTERBURY BELLS. B. Very handsome border perennials of great utility, and deservedly popular favorites. They are called "Hose in Hose" or "Cup and Saucer" Canterbury Bells.
Single. Blue, white, rose and mixed. Height 2 ft. ..... .05
Double. Blue, white, rose and mixed. Height 2 ft. ..... .10
Calycanthema Mixed. Height 2 ft. ..... .10

CARNATION

Our seed is saved from the finest kinds selected, especially for bright coloring, size and fragrance. The Marguerite forms are smaller but flower in a shorter time from seed.

CARNATION. Pkt.
Finest German Mixed. Height 1½ ft. $0.25
Grenadin. Early dwarf, red. Height ½ ft. ..... .10
Hermine. Pure white; extra fine. Height 2 ft. ..... .25
Germain **Marguerite Mixed.** Will commence flowering within four months from the time of coming up. Height 1½ ft. ..... .10
Marguerite, Snowflake. Pure white. Height 1½ ft. ..... .10
Perpetual, or Tree. Very fine mixed. Height 2 ft. ..... .25
Salmon. Height 2 ft. ..... .25
Scarlet. Height 2 ft. ..... .25
Yellow. Height 2 ft. ..... .25
Redondo Mixed. Height 1½ ft. ..... .15

CENTAUREA Dusty Miller). Fine plants for borders.
Candidissima. White foliage. Height 1 ft. ..... .10
Gymnocarpa. Height 1 ft. ..... .10

CERASTIUM TOMENTOSUM (Jerusalem Star). White leaves; trailer; useful for edging and rockwork ..... .15

CHRYSANTHEMUM FRUTESCENS (Paris Daisy or Marguerite). B. White, yellow eye. Height 2 ft. ..... .10
Germain **Leucanthemum hybrid** (Shasta Daisy): White, yellow center; flowers four inches in diameter; valuable for cutting. Height 2 ft. ..... .10
Indicum (Chinese). Mixed. Height 3 ft. ..... .10
Nanum (Pompone). Mixed. Height 2 ft. ..... .10
Japonicum (Japanese). Mixed. Height 3 ft. ..... .10
The last three kinds are the Chinese and Japanese varieties so extensively grown and used during the fall.

CINERARIA MARITIMA CANDIDISSIMA. Silvery foliage, very useful for ribbon beds and borders. Height 1 ft. ..... .10

CLIANTHUS DAMPIERI (the Australian Glory Pea). A magnificent flower, scarlet, with black center. Water sparingly after sowing. Height 4 ft. ..... .15

COLEUS

Gorgeous leaved plants, suitable for bedding out or indoor use. The coloring in our large leaved varieties is not excelled by even the finest Caladiums, while the variety in tints is remarkable. The Coleus likes plenty of sun, ample moisture and rich, light soil to bring out its best points. Sow in March.

COLEUS. Pkt.
New large-leaved. Very fine. Height 2 ft. $0.25
Finest Mixed. Height 2 ft. ..... .15

CONVOLVULUS MAURITANICUS. Hardy perennial for hanging-baskets with flowers of bright metallic luster. Lavender, trailer ..... .10

COREOPSIS GRANDIFLORA

The best golden yellow composite, fine for cutting or for garden decoration. It comes easily and quickly from seed and flowers very freely. Sow several times in the year for a succession of bloom. Pkt.

COREOPSIS, GRANDIFLORA. H. Height 2 ft. $0.10
Lanceolata. B. A beautiful plant, with lance-shaped leaves and showy bright flowers 2 or 3 inches in diameter. Yellow. Height 2 ft. ..... .10

CUPHEA PLATYCENTRA (the Cigar Plant). Pretty tubular flowers. Scarlet and black. Height 2 ft. ..... .10

CYCLAMEN

One of the most popular of greenhouse plants and deservedly so. The seed should be sown in autumn, any time from August to November, and again in the spring for a succession of flowers. During the last ten years, the strains have been greatly improved by European hybridists. We constantly add the finest varieties and there is nothing better than our strain in existence. The seeds should be dibbled in half an inch deep and 1 inch apart.

CYCLAMEN. Hh. Pkt.
Persicum. Bulb. Fine mixed. Height ½ ft. $0.25
Persicum giganteum. Bulb. Fine mixed. Height ¾ ft. .25

DAISY. See Bellis.
DAISY, SHASTA. See Chrysanthemum above.

DAHLIA

While Dahlias are more frequently raised from tubers than seed, there is great interest in growing some seedlings, as there is always the chance of getting something novel and distinct among them. Both single and double, also the Pompon and Cactus forms can be grown this way. Sow in February and March, under glass, or in April in the open ground. Watch carefully for slugs and small snails, as these will ruin hundreds of the young plants in a night, if allowed to. Something in the Dahlia is very attractive to these pests. A little ammonia sprinkled around is effective in killing them. See pages 96 and 97.

DAHLIA. Hh. Large-flowered, double, best quality mixed. Height 5 ft. ..... Pkt. $0.15
Cactus. Mixed colors. Height 5 ft. ..... .15
Pompone. Small bouquet, mixed. Height 4 ft. ..... .15
Single, Mixed. Height 5 ft. ..... .10

DELPHINIUM

The perennial larkspur is possibly the finest herbaceous plant in existence, rivalling even the Peony. The plants thrive in any soil and situation, withstand frost and heat and are always the central attraction in the hardy perennial border. The blue forms are superb, while the scarlet, though not quite as hardy as the others, is extremely showy. Sow in autumn and again in spring. For plants see Nursery Department.

DELPHINIUM CARDINALE (Scarlet Larkspur). Bright scarlet. Height 3 to 5 ft. ..... Pkt. $0.10
Germain **Burbank's Hybrids.** Mixed blues & lavender .25
Elatum (Bee Larkspur). Mixed. Height 3 ft. ..... .05
Formosum. Bright blue. Height 4 ft. ..... .10
Hybridum. For picture see page 51. Double, extra choice mixed. Height 3 ft. ..... .15

PERENNIALS

DIANTHUS

Belongs to the same family as the Carnation. Pretty and easily grown plants, coming freely from seed and liking a light, sunny position. Sow at any time. Pkt.

DIANTHUS. Albus (White Diadem Pink). Height 1 ft.. $0.10
Double Mixed. Height 1 ft..... .10
Diadematus (Double Diadem Pink). Height 1 ft..... .10
Fire Ball..... .10
Imperialis (Double Imperial Pink). Mixed. Height 1 ft.. .10
Heddewigii. Fine mixed. Height 1 ft..... .10
Crimson Bell. Dark crimson. Height 1 ft..... .10
Queen of Holland. White. Height 1 ft..... 10
Nobilis (Royal Pinks). Flowers 3 to 4 inches in diameter, petals frilled and fringed; colors vary from bright blood-red to carmine, pink and white. Height 1 ft... .10
Hybridus. Double mixed. Height 1 ft..... .10
Laciniatus, Single Mixed. Height 1 ft..... .10
Mixed. All sorts. Height 1 ft..... .10

DIGITALIS

The Foxglove is one of the oldest garden plants and a favorite everywhere. Produces tall, showy spikes of pretty, showy flowers in a great variety of color. Pkt.

DIGITALIS GLOXINOIDES (Foxglove). Fine mixed. 3 ft $0.05

DODECATHEON MEDIA (American Cowslip). Lilac. Fine for rockwork, etc. Height ½ ft..... .10
EPETION RENIFORME (Viola hederacea; Australian Pansy). A pretty tufted plant with kidney-shaped leaves and blue flowers; rare and curious. Hgt. ½ft. .25
ERYTHRINA CRISTA-GALLI (Coral Tree). Dark red. A handsome decorative plant for shrubbery. Hgt. 6 ft. .15
EVENING PRIMROSE. Yellow. Very showy for mixed borders and shrubbery, etc. Height 3 ft..... .05
FERNS. All species mixed; choicest varieties. ½ to 2 ft. .15
FORGET-ME-NOT. See Myosotis.

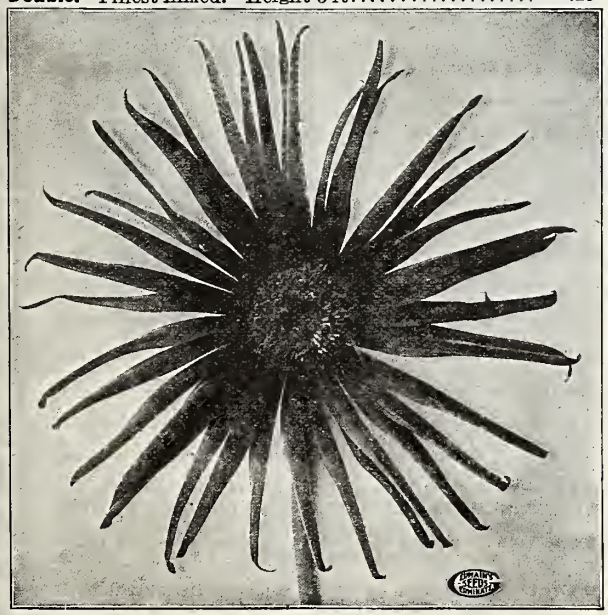
FRAXINELLA

The Fraxinella or Burning Bush possesses the peculiar property of giving off a volatile oil or gas that ignites and flashes up for a second or so when a lighted match is applied, without injury to plant. A pretty, herbaceous plant, worthy extended culture.

FRAXINELLA (Burning Bush). Red; handsome. The seed is slow to germinate. Height 2 ft..... Pkt. $0.10

FREESIA

FREESIA REFRACTA ALBA. B. Well-known bulbous plants, blooming in one year from seed. White. Height ¾ ft..... Pkt. $0.10
FRENCH HONEYSUCKLE (Hedysarum coronarium). Red and white mixed. Hardy, profuse-blooming. Succeeds well near the seaside. Not to be confounded with the climbing Honeysuckle. Height 3 ft..... .05
FUCHSIA. Hh. Favorite flowering shrubs. Seeds from the finest named varieties.
Hybrida. Single, finest mixed. Height 3 ft..... .25
Double. Finest mixed. Height 3 ft..... .25



GERBERA JAMESONI

GAILLARDIA GRANDIFLORA

GAILLARDIA (Blanket Flower). B. Showy border plant. Pkt.
Germain **Grandiflora.** Splendid mixed. Height 1½ ft. $0.10
Maxima. Golden yellow. Height 2 ft..... .10
Lorenziana. Double, mixed colors. Height 1½ ft..... .05
Picta. Red and yellow. Height 1½ ft..... .05
GENTIANA ACAULIS. An alpine plant of great beauty; fine for borders and rock work; intense blue. Height ¼ ft .10
GERANIUM. B. Seed saved from best varieties of all kinds
Apple-scented. Very fragrant. Height 1½ ft..... .15
Ivy-leaved. Trailer. Finest mixed..... .15
Tricolor. Gold and bronze leaves. Height 2 ft..... .25
Zonale, Single. Finest mixed. Height 5 to 6 ft..... .10
Double. Finest mixed. Height 3 ft..... .25
See Pelargonium (page 74) for show varieties.

GERBERA JAMESONI

(Transvaal Daisy)

The original form of this fine composite was bright red, but we have now almost all colors. Comes rather slowly from seed, but well worth waiting for. Sow at intervals all through the spring and summer. See adjoining engraving.

GERBERA JAMESONI (Transvaal Daisy). The Scarlet Daisy of South Africa..... Pkt. $0.25

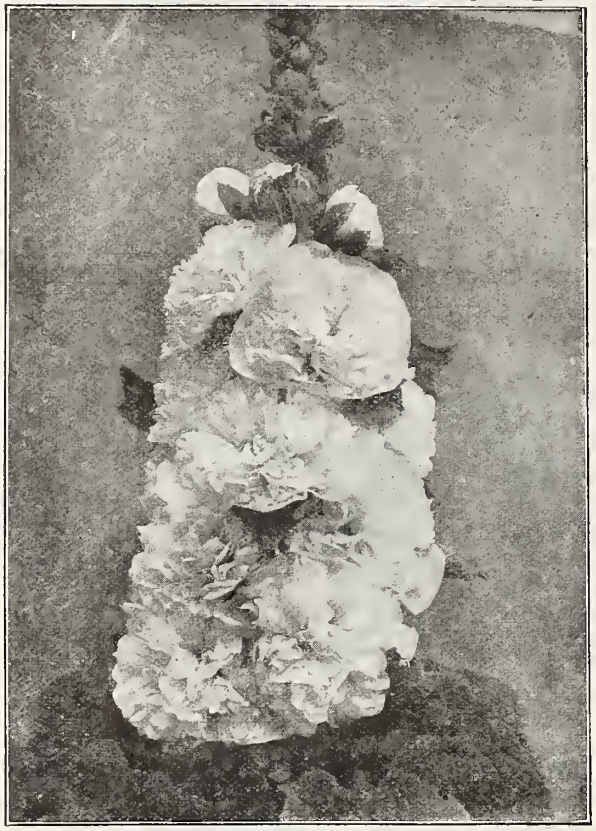
GEUM COCCINEUM (Scarlet Avens). A Chilian plant of great beauty; very useful in mixed borders. Scarlet. Height 2 ft. See specialty page 52..... .10
GLOXINIA HYBRIDA. T. A beautiful greenhouse perennial bulb. Seed saved from the finest erect and drooping varieties. Finest mixed. Height 1 ft..... .25
GOLDENROD. See Solidago.
GYPSOPHILA PANICULATA. B. Very graceful, flowering in panicles, and excellent for cut-flowers. White. Height 1½ ft. See also Annuals..... .05
Pink..... .10
HELIOTROPIUM (Cherry Pie). Deliciously fragrant, also fine for pot culture. Finest mixed. Height 6 ft..... .10
HEUCHERA. B. Allied to the Saxifragas; very graceful; valuable for cut-flowers.
Alba. White. Height 1 ft..... .15
Sanguinea. Crimson. Height 1 ft..... .15

PERENNIALS

HIBISCUS. Well-known showy perennial shrubs with brilliant flowers.
Coccineus. Scarlet. Height 5 ft..... .10
Roseus grandiflorus. Pink. Height 4 ft..... .10

HOLLYHOCK

The Hollyhock comes fairly true from seed and will flower the first year if the seed is sown early and transplanted to rich soil. Sow again in the fall and transplant in the spring. One of the few herbaceous plants that are effective in landscape work.



HOLLYHOCK

HOLLYHOCK. Favorite hardy perennials. Pkt.
Allegheny. Semi-double, fringed, mixed. Height 5 ft.. $0.10
Chater's Superb Double Mixed English. Height 5 ft.... .10
German Finest Double Crimson. Height 5 ft..... .10
Pink. Height 5 ft..... .10
White. Height 5 ft..... .10
Yellow. Height 5 ft..... .10
Mixed. Height 5 ft..... .10

HONESTY. B. Interesting in a dried state, the membranous lining of the seed-pod making a handsome ornament for winter bouquets. Purple. A biennial. Height 1½ ft..... .10
HUNNEMANNIA FUMARIAEFOLIA. A showy plant belonging to the Poppy family. Yellow. Height 2 ft .10
HYACINTHUS CANDICANS. A bulbous plant, throwing up a spike bearing 20 to 30 yucca-like flowers; pure white and fragrant. Height 3 ft..... 10
IPOMOPSIS (Texas Plumes). Showy scarlet and gold pyramidal blossoms and feathery foliage. Fine mixed. Biennial. Height 3 ft..... .10
LANTANA. B. White, rose and yellow particolored fragrant flowers, like heliotrope in form. Finest mixed. Height 4 ft..... .10
LAVENDER SWEET. Blue; a hardy shrub, well-known and esteemed for its delicious fragrance. Height 3 ft.. .05
LINARIA CYMBALARIA (Kenilworth Ivy). White and purple; very pretty for rock and hanging-baskets; trailer..... .10

LOBELIA CARDINALIS

Pkt.
LOBELIA CARDINALIS (Cardinal Flower). Height 2 ft. $0.10

HUNNEMANNIA

Pkt.
LUPINUS. B. Mixed, all colors. Height 1 to 4 ft..... $0.05
LYCHNIS (Jerusalem Cross). B. Favorite hardy plants for borders and shrubbery.
Chalcedonica. Bright scarlet. Height 2 ft..... .05
Haageana Hybrida. Finest mixed. Height 2 ft..... .10
MARVEL OF PERU (Four O'clocks). This well-known plant has few rivals for beauty, expanding in the afternoons and continuing open all night. Finest mixed. Height 2 ft..... .05
MATRICARIA EXIMIA (Feverfew). B. Double white, very handsome, showy flowers, continuing a long time in bloom. Height 2 ft..... .10
MIMULUS. Brilliant perennials, flowering for the first season if sown early; also suitable for pot-culture.
Cardinalis (Scarlet Monkey Flower). Dark red. Height 1½ ft..... .10
Tigrinus grandiflorus. Finest mixed, spotted and tigered varieties. Height 1½ ft..... .10
MUSK PLANT (Mimulus moschatus). Yellow; a universal favorite. Height ½ ft..... .10
MYOSOTIS (Forget-me-not). B. Very beautiful and much prized for spring flowers.
Azorica. Dark blue. Height ½ ft..... .10
Alpestris. Light blue. Height ½ ft..... .10
Germain **Dissitiflora.** Brilliant blue, earliest flowering. Height ½ ft..... .15
Palustris semperflorens. Bright blue. Height 1 ft..... .10
NIEREMBERGIA GRACILIS. Silvery lavender. Excellent for hanging-baskets, edgings, etc. Height 1 ft..... .10
OENOTHERA LAMARCKIANA. A grand Evening Primrose, with long spikes of yellow flowers. Yellow. Height 4 ft..... .05
OXALIS (Shamrock, or Wood Sorrel). Delightful little plants for edging, hanging-baskets and rockwork.
Rosea. Pink. Height ½ ft..... .10
Tropaeoloides. Yellow. Height ¼ ft..... .10

PANSY or HEARTSEASE

CULTURE—To have Pansies in perfection, sowings should be made every month from the end of July to the end of April. Young, vigorous stock always gives the best results. Sow in pans or frames and transplant when large enouhg to a border of rich soil. Water must be given freely in bright weather and the flowers gathered as soon as they begin to wilt in order to keep up a succession and prevent running to seed, which injures the plants and tends to small flowers.

GERMAIN'S GIANT PRIZE PANSIES

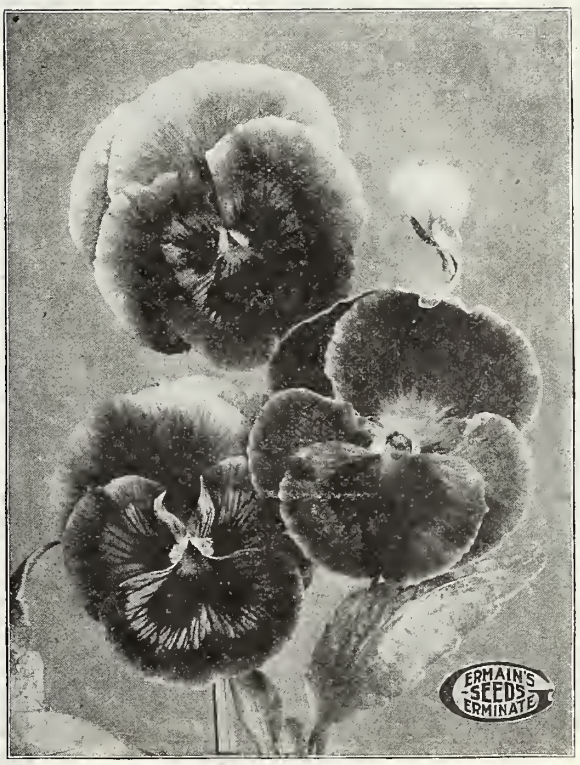
For Plants See Nursery Department

We are pleased to call your attention to our Superb Giant Prize Pansies and we do not hesitate to recommend our Mixture as containing the finest and largest varieties in the world. Each year we add the latest Giants and so our mixture is unsurpassed in size, in beauty of markings and of colorings. The innumerable varieties of Pansies embracing every color from white to black, maroon, yellow, purple, striped, mottled, wine shades, bronze, sienna and those with the delicate markings as well as those with the bold showy faces are all found in our mixture.

What could be more interesting to any lover of flowers than a bed of Pansies fresh with the morning dew, some clad in their rich velvety petals and others turning their smiling faces upward asking only to be appreciated in their brief effort to make the world a little more beautiful!

	Pkt.
GIANT EMPEROR WILLIAM. Very showy. Cornflower blue	$0.25
GIANT KING OF THE BLACKS	.25
GIANT MADAME PERRET. An exquisite pansy. Every blossom displays the soft red wine shades in varying degree, either faint or intense	.25
GIANT GOLDEN YELLOW. Five spotted. Very beautiful	.25
GIANT WHITE. With purple eye, extra fine	.25
GERMAIN'S SUPERB GIANT PRIZE MIXTURE	.25

Germain's Special Collection, 25 cents per package, or the Collection of Six for $1.00.



GERMAIN'S GIANT PRIZE PANSIES

TRIUMPHANT GIANT PANSY

	Pkt.
AZURE BLUE. Height ½ ft	$0.10
BUGNOT'S SUPERB BLOTCHED. Extra fine. Hgt ½ ft.	.50
CASSIER'S. Very large-flowered, finest mixed. Hgt. ½ ft	.25
COMMON BEDDING MIXTURE	.05
EMPEROR WILLIAM. Ultramarine blue. Height ½ ft	.10
ENGLISH MIXED. Extra elect, large velvety. Hgt ½ ft	.15
FAUST, KING THE BLACKS. Coal-black. Hgt ½ ft.	.10
GIANT TRIMARDEAU. Mixed, very large and of vigorous growth. Height ¾ ft	.25
Parisian Large Stained. Large-flowered. Height ¾ ft	.25
GOLD-MARGINED. Brown with gold border. Hgt ½ ft.	.10
GOLDEN YELLOW. Pure. Height ½ ft	.10
Dark center. Height ½ ft	.10
LORD BEACONSFIELD. Large, purple-violet shading off to lavender. Height ½ ft	.10
MADAME PERRET. Wine, pink and red shades. Beautiful veins and white margins	.25
MAHOGANY-COLORED. Height ½ ft	.10
MASTERPIECE. New Giant curled, or ruffled Pansy. Highest perfection in the class	.25
ODIER'S FIVE-BLOTCHED. Very fine, with a black blotch on each petal. Height ½ ft	.25
PEACOCK. Royal purple, shot with peacock-blue. Height ½ ft	.15
PRESIDENT CARNOT. White, violet blotches. Hgt ½ ft	.15
TRIUMPHANT GIANTS. Selected prize flowers. Hgt. ½ ft	.50
SNOWFLAKE. Pure white. Height ½ ft	.10
STRIPED AND VARIEGATED VARIETIES. Hgt ½ ft.	.10
VICTORIA. Blood-red. Height ½ ft	.15
VIOLET. White-margined. Height ½ ft	.10
WHITE, with Black Center. Height ½ ft	.10
FINE MIXED. Height ½ ft	.10

For fancy plants of all varieties see page 108.

PERENNIALS

PETUNIA

SINGLE PETUNIA

CULTURE—The Petunia is a hardy Perennial, producing the most showy flowers in the greatest profusion. For bedding purposes or garden decoration, it is indispensable. It succeeds best in a sunny location. Sow the seed very shallow and keep moist. The Single Petunia is of the easiest culture—seeds itself when once planted and grows in any soil that will sustain plant life.

	Pkt.
PETUNIA. Very ornamental, free-flowering plants, for bedding in masses or borders.	
Single Inimitable. Blotched and striped, very handsome. Height 1 ft.	$0.10
Germain **Giants of California.** Very large ruffled and fringed, extra fine mixed. Height 1 ft.	.25
Fringed. Large-flowered, superb mixed. Height 1 ft.	.25
White. Height 1 ft.	.10
Good Mixed. Height 1 ft.	.10
Double Fringed. Superb mixed. Height 1 ft.	.50
Double Extra Fine, Mixed. Height 1 ft.	.25
PELARGONIUM (Lady Washington Geranium). B. Favorite bedding and greenhouse plants, with brilliant flowers. Seeds saved only from the finest sorts. Fancy, best and richest colors mixed. Height 3 ft.	.25
Large-flowered. Richest colors, mixed. Height 3 ft	.15
PENTSTEMON. B. Fine herbaceous perennials, very showy in mixed borders.	
Germain **Hartwegi grandiflorus.** New large-flowered mixed. Height 2 ft.	.15
Finest Mixed. Height 2 ft.	.05

PHLOX

	Pkt.
PHLOX: PERENNIAL. B. A very showy, handsome plant. Finest mixed. Height 2 ft.	$0.10
PHYSALIS FRANCHETI (Chinese Lantern Plant). Very ornamental; produces an abundance of large, white flowers, followed by inflated husks, which are first green, afterward changing to a yellowish color, and then to orange-scarlet; in shape like a Chinese lantern. White. Height 2 ft.	.15
PICOTEE PINK. B. Splendid Hardy Pinks, beautifully marked on edge of petals. Finest mixed. Height 1½ ft.	.15

PINK

	Pkt.
PINK, FLORIST'S (Pheasant's Eye Pink). B. Very fine, usually marked with a ring in center, double and fragrant. From fine show varieties, mixed. Height 1 ft.	$0.10
POINSETTIA PULCHERRIMA (Christmas Flower).	$0.25
POLEMONIUM COERULEUM (Jacob's Ladder). An old-fashioned English perennial, used in mixed borders. Blue. Height 2½ ft.	.10
POLYANTHUS. Charming early-flowering plants, beautifully laced and edged.	
Finest Gold-laced varieties. Height ½ ft.	.25
Choice Mixed. Height ½ ft.	.10

DOUBLE PETUNIA

PERENNIALS

POPPY

POPPY. Very showy plants for mixed borders. The Iceland oppies will bloom the first year from seed if sown early. For other varieties, see list of annuals. Pkt.
Perennial Hybrid Mixed. Height 4 ft. $0.25
Papaver bracteatum. Scarlet. Height 3 ft. ..... .10
Orientale. Dark red. Height 4 ft. ..... .10
Mixed. Height 4 ft. ..... .10
Iceland (Papaver nudicaule). Yellow. Height 1¼ ft. ..... .10
Orange. White. Mixed. Height 1¼ ft. ..... .10

PRIMROSE

RIMROSE. An old-fashioned garden-favorite. True English yellow. Height ½ ft. ..... Pkt. $0.15

PRIMULA

RIMULA SINENSIS. T. Fine pot-plants for winter and spring flowering; for indoor culture. See page 51 also. Pkt.
Fringed. White. Height ½ ft. $0.25
Red. Height ½ ft. ..... .25
Finest Mixed Fringed. Height ½ ft. ..... .25
Obconica. T. Light mauve. Height ½ ft. ..... .15

PYRETHRUM

YRETHRUM CINERARIAEFOLIUM. The plant from which is made the Persian insect powder in Europe, or "Buhach," as made in California ..... Pkt. $0.15
Roseum hybridum. Single. Finest mixed. Height 2 ft. .. .10
Germain **Parthenifolium aureum** (Gold Feather). Height ½ ft. ..... .10
Selaginoides. Yellow fern-like foliage, very fine. ½ ft. .10
The second variety is grown for its flowers, the last two are well-known edging plants.

OMNEYA COULTERI (Matilija Poppy). A noble plant. White, with yellow center. Height 6 to 10 ft. ..... .10
OSE CAMPION (Agrostemma coronaria). Crimson flowers; silvery foliage. Height 1½ ft. ..... .05
OCKET, SWEET (Dame's Violet). Valuable for borders, free-blooming and sweet-scented. Fine mixed. Height 1½ ft. ..... .05
UDBECKIA BICOLOR SUPERBA SEMIPLENA. Semi-double flowering. Fine for cutting. Height 2 ft. .... .10

SALVIA

ALVIA (Flowering Sage). B. Brilliant-flowering plants for borders, back-grounds and centers of beds. Pkt.
Germain **Bon-fire Dwarf.** Brilliant scarlet flowers. Height 2½ ft. $0.10
Patens. Hh. Sky-blue. Height 2 ft. ..... .15
Splendens. Hh. Dazzling scarlet. Height 3 ft. ..... .10

SANTOLINA

ANTOLINA CHAMAECYPARISSUS (Lavender Cotton). A silvery-leaved plant, useful for edging. Height 2 ft. .. Pkt. $0.10

AXIFRAGA (Mother of Thousands or London Pride). Charming little trailing plants for hanging baskets, vases or rockwork. Fine mixed. Height ½ ft. ..... .15
ENSITIVE PLANT (Mimosa pudica). An interesting plant with the peculiarity of closing its leaves when touched. Pink. Height 2 ft. ..... .05
OLIDAGO CANADENSIS (Goldenrod). Height 2 to 3 ft .10
OLANUM, WEATHERILL'S HYBRIDS. Hh. Decorative species for pot culture, bearing orange-colored berries. Mixed. Height 1 ft. ..... .10
TATICE LATIFOLIA (Sea Lavender). A favorite hardy perennial with bright blue flowers, very useful for bouquets. Height 1 ft. ..... .10
TEVIA SERRATA. B. A valuable plant for florists, producing large heads of small, white fragrant flowers; very graceful and excellent for cutting purposes. White. Height 1½ ft. ..... .10

STOCKS

TOCKS (Biennial and Perennial). B. (For Ten-weeks Stocks, see Annuals). All these Stocks are very double, fragrant and handsome. The intermediate varieties are biennials. The true "Gilliflower." Pkt.
Winter Nice. Abundance, carmine rose ..... .15
Almond Blossom. White, shaded carmine ..... .15
Beauty of Nice. Flesh pink ..... .15
Crimson King. Tall long spikes ..... .15
Deep Lilac. Novelty 1912 ..... .15
Purple. Remarkably fine ..... .15
Queen Alexandra. Rosy lilac ..... .15
White. Free flowering, Germain's Special ..... .15
Mixed ..... .15
Brompton. Finest mixed. Height 2 ft. ..... .15
Cocardeau, or Giant Cape Winter. Finest mixed. Ht. 2½ ft. ..... .15
Emperor. Very fine mixed. Height 2½ ft. ..... .15
Intermediate East Lothian. Height 2 ft. ..... .15

SWEET WILLIAM

SWEET WILLIAM. B. Well-known and very showy plants for borders; flowering early in the spring. Pkt.
Hunt's Auricula-flowered Perfection. Single mixed. Height 1½ ft. $0.10
Single. Pure white. Height 1½ ft. ..... .10
Finest mixed. Height 1½ ft. ..... .05
Double. Finest mixed. Height 1½ ft. ..... .10

VALERIANA. Mixed. Height 2 ft. ..... .05

VERBENA

VERBENA. B. For garden beds and massing the verbena's are unriveled; from spring until late autumn flowers of the most varied and brilliant colors are produced. Although perrenials, they will bloom the first season from seed and and form splendid plants. Pkt.
Auricula-flowered Mixed. With white centers; trailer .. $0.10
Large White. Trailer ..... .10
Germain **Mammoth Mixed.** Trailer ..... .15
Pink. Trailer ..... .10
Purple. Trailer ..... .10
Scarlet. Trailer ..... .10
Fine Mixed. Trailer ..... .05

VERBENA LEMON-SCENTED (Aloysia citriodora). A well-known favorite bedding plant. The Lemon Verbena is a shrubbery, perennial in our mild climate. Lavender. Height 8 to 10 ft. ..... .15

VINCA ROSEA (Madagascar Periwinkle). Red. Height 2 ft. .10
Alba. White, with red eye. Height 2 ft. ..... .10
Mixed. Height 2 ft. ..... .10

VIOLA

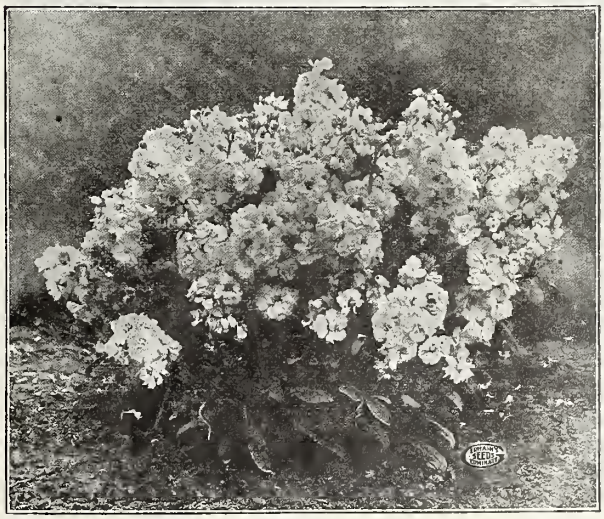
VIOLA. B. With the exception of Viola cornuta, these favorites are too well known to need comment. Pkt.
Cornuta. Resembles the Pansies, and is admirably adapted for bedding purposes. Mixed. Height ½ ft. .. $0.10
Odorata (Sweet Violet). Height ¼ ft. ..... .10
White. Height ¼ ft. ..... .10
Prince of Wales. Very large. Height ¼ ft. ..... .10

WALLFLOWER

WALLFLOWER. B. Well known fragrant plant. Single mixed. Height 2 ft. ..... Pkt. $0.05
Blood-red. Height 1 ft. ..... .10
Belvoir Castle. Dwarf yellow. Height ¾ ft. ..... .10
Germain **Double German Mixed.** Height 2 ft. ..... .15
Harbinger. Rich blood-red. Height 1 ft. ..... .10

WIGANDIA

WIGANDIA CARACASANA. Plants remarkable for the large size of their leaves; much prized as single specimens for lawns and sub-tropical gardening. Violet. Height 8 to 10 ft. ..... Pkt. $0.15



GERMAIN'S SPECIAL WINTER WHITE STOCKS

CALIFORNIA NATIVE FLOWER SEEDS

Collections

Souvenir Collection of 15 Choice Varieties of California Native Flower Seeds ..... .50

Eight Beautiful Varieties of California Poppies, in crimson, yellow, white and shaded sorts ..... .50

BRODIAEA

Pkt.

BRODIAEA CAPITATA (Cluster Lily). Pretty, bulbous; flowers early in spring; deep violet to white. Height ¾ to 1 ft $0.10

DELPHINIUM

Pkt.

DELPHINIUM CARDINALE (Scarlet Larkspur). Magnificent perennial; flowers intense bright scarlet. Height 3 to 5 ft $0.10

Parryi (Blue Larkspur). Beautiful annual; flowers bright blue. Height 2 ft ..... .15

DICENTRA CHRYSANTHA (California Bleeding Heart). Perennial; orange-yellow. Height 3 to 5 ft ..... .15

DODECATHEON CLEVELANDI (Shooting Star). Perennial; purple, bordered with yellow. Height ¾ ft ..... .15

EMMENANTHE PENDULIFLORA (Whispering Bells). Bushy annual; small, light yellow, bell-shaped flowers. Height 1 to 1½ ft ..... .15

ESCHSCHOLTZIA
(CALIFORNIA POPPY)

Pkt.

ESCHSCHOLTZIA. The well-known California Poppy. The Golden West is a fine variety producing very large flowers, of a light canary-yellow color, with an orange blotch at the base of each petal, forming a maltese cross in the center of the flower.

Californica. Yellow. Height 1 ft $0.05
Crimson Flowering. (Burbank's) ..... .10
Golden West. Canary-yellow and orange. Height 1 ft. .10
Mandarin. Orange and mandarin red. Height 1 ft ..... .10
Orange. Height 1 ft ..... .05
Double. Height 1 ft ..... .10
Rose Cardinal. Height 1 ft ..... .10
White. Height 1 ft ..... .05
Double. Height 1 ft ..... .10
White and Carmine. Height 1 ft ..... .10
Fine Mixed. All sorts. Height 1 ft ..... .05

CALIFORNIA POPPY (ESCHSCHOLTZIA

ROMNEYA COULTERI

LATHYRUS

Pkt.

LATHYRUS SPLENDENS (Pride of California). Magnificent perennial climbing pea; produces abundant, large, rich crimson flowers in clusters of ten or more. Height 6 to 10 ft $0.15

LAYIA CALLIGLOSSA (Tidy Tips). A pretty annual; flowers yellow tipped with white; petals daisy-like, but broader, and with serrate tips. Height 6 to 12 inches .. .10

Glandulosa (White Daisy). Annual flowers pure white and daisy-like, but petals broader and with serrate tips. Height 6 to 12 inches ..... .10

LEPTOSYNE

Pkt.

LEPTOSYNE STILLMANI. A pretty annual, with compact, bushy, thin-cut leaves; flowers golden yellow, 1½ inches in diameter. Height 1 ft $0.15

NEMOPHILA

Pkt.

NEMOPHILA INSIGNIS (Baby Blue Eyes). Annual; sky-blue flowers. Height 4 to 6 inches $0.05

PENTSTEMON SPECTABILIS ("Blue Pentstemon"). Large spike of deep blue flowers, grows to height of 3½ to 7 ft. .10

PHACELIA PARRYI. Annual. Flowers bell-shaped, dark violet-blue. Height 6 to 12 inches ..... .10

PLATYSTEMON CALIFORNICUS (Cream Cups). Annual; poppy-like. Height 8 to 10 inches ..... .05

MATILIJA POPPY

Pkt.

ROMNEYA COULTERI (Matilija Poppy). The queen of all our native flowers. Perennial. Flowers pure white with golden stamens and 6 to 8 inches in diameter; flowers last well when cut. Height 6 to 10 ft $0.10

VIOLA PEDUNCULATA (California Yellow Violet). Sometimes called "The Yellow Johnny Jump-up." A fine little native. Flowers are yellow, blotched with brown. .15

EVERGREEN TREE AND SHRUB SEEDS

All those varieties quoted at less than 50 cents per ounce we supply at 10 cents per packet. All those quoted at 50 cents and upwards we supply at 15 cents per packet.

ACACIA BAILEYANA. A small, handsome tree with glaucous green foliage. Leaves pinnate; three to four pairs, leaflets about twenty pairs 1½ to 2½ lines long, crowded; Flowers in racemes 3 to 4 inches long, yellow. One of the most beautiful of the Acacias; highly recommended for street planting. Height 25 ft. Ounce 60 cents, pound $6.00.

Cultriformis (Knife-leaved Acacia). A distinct and beautiful species of upright growth, forming a large shrub, with glacous green leaves. Height 15 ft. Ounce 50 cts, pound $5.00.

Dealbata (Silver Wattle). Very ornamental. Height 15 ft. Ounce 40 cents, pound $4.00.

Decurrens (Green or Black Wattle). A medium-sized tree of rapid growth, very useful for wind-breaks. Height 30 feet. Ounce 35 cents, pound $3.50.

Germain **Floribunda.** Ornamental, with very abundant handsome flowers, valuable for lawns, parks, cemeteries, etc. Height 25 ft. Ounce 50 cents, pound $5.00.

Latifolia. A handsome shade tree, succeeding especially well near the seacoast. Leaves broad; yellow flowers. Native of South Africa. Height 40 ft. Ounce 50 cents, pound $5.00.

Linifolia (Flax-leaved). An ornamental shrub, with yellow flowers, growing in heads two to four together. Height 8 ft. Packet 15 cents.

Lophantha (Albizzia Lophantha; Cape or Crested Wattle). One of the most rapid-growing trees, succeeding in most desolate places. Height 25 ft. Ounce 15 cents, pound $1.50.

Germain **Melanoxylon** (Blackwood). In sheltered, irrigated glens this tree will reach a height of from 80 to 100 feet, with a trunk several feet in diameter. Ounce 35 cents, pound $3.50.

Mollissima (Green Wattle). An abundant-blooming small tree, very ornamental; suitable for lawns and shrubbery. Height 25 ft. Ounce 50 cents, pound $5.00.

Podalyriaefolia. This is a beautiful shrub, and produces the largest and richest yellow flowers of all the acacias. It is especially recommended for cut flowers. Packet 25 cents.

Pycnantha (Golden Wattle). Of rapid growth, doing especially well near the seacoast, and containing a large quantity of tannin. Height 40 ft. Ounce 30 cents, pound $3.00.

Saligna (Willow-leaved Acacia). Small tree of weeping habit; ornamental. Height 15 to 20 ft. Ounce 40 cents, pound $4.00.

Verticillata. This is a beautiful bushy spreading shrub growing about 12 feet high with spikes of deep yellow flowers. Fine for lawns or groups. Packet 25 cents.

ORONIA MEGASTIGMA. A beautiful little shrub; flowers copper-color, with strong violet odor. Very rare. Seed germinates slowly. Height 2 ft. Packet 50 cents.

RACHYCHITON ACERIFOLIUM (Flame Tree). Of fine, sturdy, pyramidal growth, with large, handsome foliage, producing masses of scarlet flowers. Height 25 ft. Ounce 30 cents, pound $3.00.

UXUS SEMPERVIRENS (Evergreen Box). Hardy, dwarf habit, 8 ft. Ounce 40 cents, pound $4.00.

AMPHORA OFFICINALIS (Camphor Tree). 50 ft. Ounce 25 cents, pound $2.50.

ASUARINA QUADRIVALVIS (Coast She-Oak). Very valuable for seacoast culture to prevent the inroads of the sea upon sand hills. Of quick growth. Height 60 ft. Ounce $1.00.

Stricta (She-Oak). Is tougher than the other species; excellent wood for tool handles. Height 30 ft. Ounce $1.00.

Suberosa (Erect She-Oak). A beautiful shade tree. Valuable for fuel. Height 60 ft. Ounce $1.00.

Torulosa (Forest She-Oak). Wood very valuable for timber; also for fuel. Height 75 ft. Ounce $1.00.

EDRUS DEODARA (Himalayan Cedar). A noble evergreen of pyramidal form. 100 ft. Ounce 75 cents, pound $7.50.

Libani (Cedar of Lebanon). Beautiful for lawn. 80 ft. Ounce 75 cents, pound $7.50.

ORONILLA GLAUCA. For hedges. Yellow flowers. Packet 15 cents, ounce 75 cents.

RYPTOMERIA ELEGANS (Fine-leaved Japan Cedar). Foliage glaucous green. 50 ft. Ounce 75 cents.

Japonica (Japan Cedar). Splendid on lawns. 75 ft. Ounce 50 cents, pound $5.00.

UNNINGHAMIA SINENSIS. A lofty evergreen resembling the Araucaria, but more feathery. 100 ft. Ounce $4.00.

UPRESSUS GOVENIANA (Goven's Dwarf Cypress). A native variety. Very ornamental. 30 ft. Ounce 40 cents, pound $4.00.

Arizonica (Blue Cypress). A rapid-growing variety, ornamental for lawns. 50 ft. Ounce 50 cents, pound $5.00.

Macrocarpa (Monterey Cypress). Useful for hedges, windbreaks, etc. 50 ft. Ounce 20 cents, pound $2.00.

Lawsoniana (Lawson's Cypress). Found in northern California and Oregon. Generally known as Oregon or White Cedar. Height 100 ft. Ounce 50 cents, pound $5.00.

Sempervirens (Italian Cypress). A European variety, very long-lived, the wood of which is almost imperishable. Height 70 ft. Ounce 30 cents, pound $3.00.

FICUS AUSTRALIS (Australian Banyan Tree). A fine evergreen tree, very useful for shade and shelter purposes. In districts experiencing sharp frosts they should be sheltered until they are four years old. Height 50 ft. Ounce $1.00.
tree, very useful for shade and shelter purposes. This and the following variety are hardy in the neighborhood of Los Angeles, but in districts experiencing sharp frosts they should be sheltered until they are four years old and well established. Height 50 ft. Ounce $1.00.

MACROPHYLLA (Moreton Bay Fig, or Long-leaved Rubber Tree). A magnificent ornamental shade tree, with large, bright, glossy green leaves. Height 100 ft. Ounce $1.00.

GREVILLEA ROBUSTA (Silky Oak, or Australian Fern Tree). A well-known shade tree, with fern-like foliage and orange flowers; of rapid growth and drought resisting to a remarkable degree. Height 150 ft. Ounce 75 cents, pound $7.50. (See cut page 90.)

JACARANDA OVALIFOLIA (Brazilian Jacaranda). A handsome tree with fern-like foliage, and magnificent clusters of light blue flowers. Hardy in this vicinity. Height 30 ft. In pods containing from 30 to 40 seeds. Pod 5 cents.

JUNIPERUS VIRGINIANA (Red Cedar). A well-known American tree. Height 50 ft. Ounce 25 cents, pound $2.50.

HAKEA SALIGNA. A splendid ornamental evergreen shrub-like tree, growing some 12 to 20 feet high, with a broad, dense growth. Of a very bushy habit. Packet 25 cents.

LIBOCEDRUS DECURRENS (California Red Cedar). A very handsome tree, native to the coast range from San Diego to Oregon. Height 100 ft. Ounce 40 cents, pound $4.00.

LIGUSTRUM JAPONICUM (Japan Privet). One of the best hedge plants. Height 12 ft. Ounce 15 cents, pound $1.50.

MAGNOLIA GRANDIFLORA (Large flowering Magnolia). A native of the southern states. Height 100 ft. Ounce 35 cents pound $3.50. (Seed furnished only during the fall and winter).

PARKINSONIA ACULEATA. A tree that should receive more attention. A wonderful sight when in bloom and a grand lawn subject any time in the year; will grow without wate. on our driest hills and dales. Native trees. Packet 25 centsr

PINUS CANARIENSIS (Canary Island Pine). Robust and healthy, bright green foliage. Grows nearly as fast as the Monterey Pine. Height 100 ft. Ounce 50 cents, pound $5.00.

Coulteri Macrocarpa (Big Cone Pine). A fine native tree, of very robust growth, with bluish gray leaves a foot in length. Has the largest cone of all pines, sugar-loaf shaped and edible. Height 100 ft. Ounce 40 cents, pound $4.00.

Insignis (Monterey Pine). This well-known native variety is of very rapid growth, and succeeds well in any kind of soil. Height 100 ft. Ounce 35 cents, pound $3.50.

Lambertiana (Sugar Pine). One of our largest native pines, forming a beautiful tree with light brown bark. Height 150 ft. Ounce 35 cents, pound $3.50.

Maritima (Seaside Pine). Well adapted for planting near the sea. Height 60 ft. Ounce 15 cents, pound $1.50.

Parryana (Mexican Pinon). A small-growing pine, native of Lower California mountains, withstanding considerable drought; a very fine pine. Ounce 50 cents, pound $5.00.

Ponderosa (Yellow Pine). A native variety found at a high altitude. Specimens have been found 300 feet high and 15 feet in diameter. Height 250 feet. Ounce 35 cents, pound $3.00.

Sabiniana (Digger Pine). Found in the hot interior foot-hills of Southern California; low-branching habit, light gray, glacous foliage; seeds edible. Known to the natives as Pinions or Digger Pine. Ounce 30 cents, pound $3.00.

Torreyana. One of the most beautiful of our native Pines. A fine specimen may be seen in cultivation in the Hotel Green grounds at Pasadena. Height 50 ft. Ounce 40c, pound $4.

PITTOSPORUM EUGENIOIDES. A valuable evergreen for lawns, parks or cemeteries. Is suitable for tall garden hedges. From South Australia. Height 20 ft. Ounce 50 cents.

Nigricans. Dark brown. Height 10 ft. Ounce 50 cents.

PITTOSPORUM UNDULATUM. A medium-sized tree with deep green glossy leaves and sweet-scented white flowers. Makes a fine hedge. Per pkt. 15c. Per oz. 50c.

POLYGALA GRANDIFLORA. A very desirable flowering shrub. Very free-blooming and ornamental. Packet 25 cents.

SCHINUS MOLLE (Mexican Pepper Tree). See cut page 90. A well-known handsome shade-tree, with light feathery foliage and bright scarlet berries. Hgt 50 ft. Oz. 10c, pound $1.

SCIADOPYTIS VERTICILLATA (Japan Umbrella Pine). Curious and remarkable. Leaves are a dark glossy green, crowded into whorls at the joints of horizontal branches. Very ornamental. Height 60 ft. Ounce 75 cents, pound $7.50.

SEQUOIA GIGANTEA (California Big Tree). Biggest of trees, and long lived. Height 300 ft. Ounce $1.00, pound $12.00.

Sempervirens (California Redwood). Wood reddish, soft, close veined, easily split, light and brittle, but very durable. It luxuriates in the cool dampness of sea fogs. Ornamental for lawns or parks. Height 200 ft. Ounce 50 cents, pound $5.00.

EVERGREEN TREE AND SHRUB SEEDS

STERCULIA DIVERSIFOLIA (Brachychiton populneum). A handsome tree of erect symmetrical growth. The leaves vary much in shape, some poplar-like, others ivy-shaped, others slightly or deeply cut. The finest street tree for Southern California and is being very extensively planted. Height 60 ft. Ounce 60 cents, pound $6.00.

Platanifolia (China Parasol Tree). Very ornamental, with large, plane-like leaves. An excellent tree for avenue or park planting. Height 40 ft. Ounce 30 cents, pound $3.00.

TELOPEA SPECIOSISSIMA (Waratah, or Australian Tulip). One o' the most showy shrubs introduced. Flowers crimson-scarlet, in large heads. Height 8 ft. Packet 15 cents.

THUJA AUREA (Golden Arborvitae). A dwarf Chinese variety, compact, globular in shape; top foliage yellowish green; for lawns, cemeteries, etc. Ht. 10 ft. Ounce 50 cts. pound $5.

Germain **Aurea semter-aurea** (Ever Golden Arborviter). Dwarf habit and free growth. Retains its golden color the year round. One of the prettiest dwarf evergreens. Height 8 ft. Ounce 60 cents, pound $6.00.

Compacta (Compact Ardorvitea). Handsome, compact, globular form. Height 5 ft. Ounce 50 cents, pound $5.00.

Occidentalis (American Ardorvitea or White Cedar). A common and well known tree, native of the Atlantic states. Height 50 ft. Ounce 50 cents, pound $5.00.

Orientalis Chinese Arborvitea). A small, elegant tree, peculiar from its flattened branches, which are dence and light green in color. Valuable for planting on lawns. Height 10 ft. Ounce 40 cents, pound $4.00.

VIBURNUM TINUS (Laurustinus). Fine winter flowering shrub, blooming abundantly during the winter. Also a valuable hedge plant. Height 8 ft. Ounce 15 cents, pound $1.50.

EUCALYPTUS TREE SEED

EUCALYPTUS TREES see page 89.

DIRECTIONS FOR RAISING SEEDLING EUCALYPTUS

Sow seed in spring or late summer in shallow boxes in a light, sandy soil with plenty of drainage at the bottom of each box. Cover the seed lightly and protect from the hot sun, but allow plenty of air; water often, but sparingly, especially after seedlings appear, for if too much water is given at one time they will be liable to damp off. When the seedlings are two or three inches high transfer to shallow boxes, placing about 1½ inches apart each way, and when large enough transplant to where they are to remain, and water well the first year. The strong growing kinds can be sown in August, September and October, and are ready for planting out early in spring. Slower kinds, as Eucalyptus amygdalina, etc., sow in spring. One pound of seed will produce from 15,000 to 30,000 trees. All varieties put up in 15 cent packets. Special price in quantities.

EUCALYPTUS AMYGDALINA (Messmate Gum). Belonging to this variety are the tallest tree in the world. Making first-class timber for flooring boards, scantling, etc.; well suited for avenue planting. Yields more essential oil than any other variety. Height 400 ft. Ounce 75 cents, pound $8.00.

Bicolor (Black Box). Of great strength and durability. Useful for piles and railroad ties. Height 150 ft. Per ounce $1.00.

Botryoides (Bangalay). A stately tree, stems attain 70 or 80 feet without a branch, and a diameter of 6 feet. Timber very durable. Posts from old trees known to last for over 25 years. Will thrive in soil containing stagnant water and near the sea coast on light soil. Ounce 75 cents, pound $8.00.

Calophylla. Ornamental, of rapid growth, with large clusters of cream-colored flowers. Its profuse bloom makes it an important source of nectar for bees. Timber also valuable for carpentry above ground. Height 50 ft. Ounce $1.00.

Citriodora (Lemon scented Gum). A fine ornamental tree with lemon-scented foliage, supplying also a useful timber. More tender than most other kinds. Height 80 ft. Per ounce $2.00.

Cornuta (Yate Tree). A rapid growing variety, it endures a high temperature, but will not stand frosts. Wood very durable. Recommended for alkali land and thrives where other varieties perish. Height 100 ft. Per ounce $1.00.

Corymbosa (Blood Wood). Wood of dark red color, easily worked while fresh, but when dry becomes very hard. Useful for fence posts and railroad ties, being durable under ground. Of little use for saw purposes. Height 100 ft. Ounces $1.00.

Corynocalyx (Sugar Gum). Very ornamental, rapid growing, with dark green leaves. Timber very durable and used for railroad ties as it lasts remarkably well underground. Valuable as a timber tree. Its growth is remarkably straight and perfect; withstands more drought than most varieties. Height 100 ft. Ounce $1.00, pound $9.00.

Creba (Narrow-leaved Iron-bark). Wood reddish, heavy, elastic and durable, is ant and teredo proof. Useful for railroad ties, bridges and piles. Height 100 ft. Per ounce $1.00.

Diversicolor (Karri Gum). From Southwest Australia. A tree of remarkable beauty, perfect shape, rapid growth, and splendid for street planting. Furnishes good timber for masts, shafts, fence rails, etc. Not recommended for dry localities or places. Height 300 ft. Ounce $2.00, pound $16.00.

Ficifolia (Scarlet flowering Gum). The most ornamental of the family. Flowers bright crimson and above the foliage. Height 20 ft. Per 25 seeds 25 cts, 100 seeds 85 cts.

Globulus (Tasmanian Blue Gum). Well known; one of th most useful and a very rapid grower. Planted in warm countries on account of its malaria destroying qualities Remarkably good for fuel, being easily split. Extensivel planted for timber having been used for piles in wharve with very satisfactory results. Height 150 ft. Per ounce 5 cents, pound $5.00.

Goniocalyx (New South Wales Blue Gum). Wood very dura ble, hard and tough. Much used by wheelwrights. rapid grower. Height 200 ft. Per ounce $1.00.

Gunnii (Tasmanian Cider Tree). Probably the hardiest of th genus. Will stand a considerable amount of frost. Recom mended for all elevated and exposed positions. Good fo fuel. Height 80 ft. Per ounce $1.00, pound $10.00.

Haemastoma (White Gum). Good for fencing and roug building material; also makes a fair fuel. It thrives nea the sea coast on sandy soil, but is not suited to the dr interior. Height 150 ft. Per ounce $1.00, pound $12.0

Hemiphloia (Common Box). Wood very hard, strong an durable. It thrives at and near the coast, on the foothill and in the dry, hot valleys of the interior. Timber used fo wheelwrights, handles, etc. Makes a first-class fuel. Heigh 100 ft. Per ounce 75 cents.

Leucoxylon (Victorian Ironbark). Hard, strong, excels hickor in strength. Recommended for underground work in mine for railroad ties, bridges, etc. Height 100 ft. Per ounce $

Longifolia (Woolly Butt). A large tree, of great girth, growin well in any soil. Timber is durable and makes exceller fuel. Height 200 ft. Per ounce 75 cents.

Maculata (Spotted Gum). Wood as strong as English Oal Extensively employed in shipbuilding and wheelwright work. Height 100 ft. Per ounce $1.00.

Melliodora (Yellow Box). Of spreading growth, with a com paratively stout stem, makes good fuel. The young tre are largely used for telegraph poles, and the flowers a much sought by bees. Height 120 ft. Per ounce $1.25.

Obliqua (Stringy Bark). A quick grower at or near the coa and some distance inland, but does not thrive in the h interior. Best wood for flooring, scantling and shingle makes the best charcoal for the forge. Height 00 ft. P ounce 75 cents.

Obtusifolia (Yellow Black Butt). A rapid growing variety, ve good fuel. Also used for staves, coopers' and wheelwright work. Height 120 ft. Per ounce 75 cents.

Paniculata (White Ironbark). Wood hard and durable, exce lent for railroad ties or for fencing. It splits well and lasting underground. Height 100 ft. Per ounce 75 cent

Pilularis (Black Butt). Of rapid growth. One of the be timber-yielding species, used for flooring boards, railro ties and telegraph poles. Height 300 ft. Per ounce $1.00.

Piperita (Peppermint Gum). Valuable for shingles, fence rail etc. Yields a great quantity of oil, and is of remarkab quick growth. Height 300 ft. Per ounce $1.00, pound $10.0

Polyanthema (Australian Beech or Red Box). Excellent fu Thrives in temperate and cold climates; succeeds in d hilly country. Height 150 ft. Per ounce 75 cents, pound $

Regnans (Royal Mountain Ash). A very scarce variety, gro ing to a large size, and very hardy. Grows on the hill slop of the Australian Alps, near the snow line. Timber durab and excellent for fuel. Height 200 ft. Per ounce $1.25.

Resinifera (Forest Mahogany). A superior timber of lar size, prized for its strength and durability. Suitable f tropical likewise cool climates near the coast. Fine f interior house work. Height 100 ft. Per ounce $1.00.

Robusta (Swamp Mahogany). Thrives best on low ground especially near the sea coast. A remarkably healthy robu variety. Height 100 ft. Per ounce 75 cents, pound $8.00.

Rostrata (Red Gum). Unsurpassed for durability; used f railroad ties, street pavements, shipbuilding, cabinet wor etc. Height 200 ft. Ounce 50 cents, pound $5.00.

Rudis (Desert Gum). Valuable for arid regions, withstandi heat, cold and winds; unsurpassed by any other variet Height 100 ft. Per ounce $1.00, pound $10.00.

Saligna (Weeping Gum). Very ornamental. Leaves a general habit are like the "Babylonian Willow." Prefe alluvial soil. Good for fuel Height 75 ft. Per ounce $1.0

Siderophloia. (Dark or Broad-leaved Ironbark). Wood ve hard, light colored and heavy, of great strength and du bility, and is used for railroad ties, spokes, shingles, bridg jetties, etc. It is stronger than hickory. Also used for fu Height 150 ft. Per ounce $1.00.

Sieberiana (Virgata) (Mountain Ash). Wood strong and elast Used for all purposes where hickory or ash are at prese used. Excellent fuel. Grows on mountain tops and sto ridges. Height 150 ft. Per ounce $1.00, pound $12.00.

Stuartiana (Apple-scented Gum). Thrives on any soil. Wo very dark and takes a good polish. Useful for cabinet wo good fuel. Height 100 ft Per ounce $1.00.

Tereticornis (Gray Gum). A very handsome, large growi variety. Wood durable and useful for shingles, floorin etc. Also an excellent fuel. It grows near the coa Height 200 ft. Per ounce 75 cents, pound $9.00.

Viminalis (Manna Gum). A hardy, rapid-growing variety, a well suited for exposed situations. It grows to a gigan size. It is mostly planted for forest cover, wind breaks a for shingles and rough building material; also used for fu Height 300 ft. Per ounce 75 cents, pound $7.50.

DECIDUOUS TREE AND SHRUB SEEDS

All varieties 10 cents per packet.

CALYCANTHUS FLORIDUS (Carolina Allspice). Remarkable for the scent of its flowers, which resembles that of the ripe fruit. Will grow in almost any soil. Flowers brown. Height 4 ft. Ounce 20 cents, pound $2.00.

CAPPARIS SPINOSA (Caper Tree). A flowering shrub with handsome blush color flowers. The undeveloped flower-buds are the true capers of commerce. Height 3 ft.

CATALPA SPECIOSA (Indian Bean Tree). A rapid-growing tree, good for timber claims. Flowers white and purple. Height 50 ft. Ounce 25 cents, pound $3.00.

CERATONIA SILIQUA (St. John's Bread). The Carob or Locust Tree of Scripture, with yellow flowers and edible saccharine pods. Height 30 ft. Ounce 15 cents, pound $1.50.

FRAXINUS VELUTINA (Arizona Ash). Used through the arid West as a shade and street tree of remarkably quick growth and stands the heat and dryness well. Ounce 35 cents.

GLEDITSCHIA TRIACANTHOS (Three-horned or Honey Locust). Hardy and of rapid growth. Will form an impenetrable hedge. Seeds should be soaked in boiling water before sowing. Height 60 ft. Ounce 10 cents, pound 60 cents.

MACLURA AURANTIACA (Osage Orange). A well-known hedge plant. Height 40 ft. Ounce 10 cents, pound $1.00.

MELIA AZEDERACH SPECIOSA (Texas Umbrella Tree). Of very rapid growth, with leaves and wood resembling the ash; durable and makes excellent fuel. Thrives in dry soils. Height 40 ft. Ounce 10 cents, pound 75 cents.

PAULOWNIA IMPERIALIS (Empress Tree). Very rapid-growing forms a broad flat head. Flowers violet, trumpet-shaped and fragrant. Height 30 ft. Ounce 30 cents, pound $3.00.

PRUNUS SEROTINA (Wild Black Cherry). A fine ornamental tree having the appearance of the wild plum of California. Very hardy, fine lawn subject. Ounce 20 cts., pound $2.

ROBINIA PSEUDACACIA (Yellow or Black Locust). Well known in this section; valuable for fuel and timber. Fine tree with which to plant timber claims. Height 60 ft. Ounce 10 cents, pound $1.00.

SYRINGA VULGARIS (Purple Lilac). The common variety One of the best; flowers and young foliage fragrant. Height 15 ft. Ounce 25 cents, pound $2.50. (See cut page 93.)

Vulgaris alba (White Lilac). One of the best white varieties. Height 15 ft. Ounce 25 cents, pound $2.50.

VIBURNUM OPULUS (Snowball, or Guelder Rose). An interesting shrub, with compact heads of snowy-white flowers. Height 15 ft. Ounce 20 cents, pound $2.00.

PALM SEEDS

CHAMAEROPS. The various species of Chamaerops are found scattered through southern Asia, northern Africa, semi-tropical North America and the South of Europe. Leaves fan-shaped; fruit a one-seeded berry.

Canariensis. A handsome palm worthy of cultivation, either for lawn or for pot culture; 10 seeds 15 cents, 100 seeds $1.00.

Germain **Excelsa** (Hardy Fan Palm). This palm grows to the height of from 20 to 30 ft.; leaves fan-shaped; trunk enclosed by a dense mass of rough fibers. Native of the East Indies. Ounce 15 cents, pound $1.50.

Humilis (Dwarf Fan Palm). An extremely handsome plant. Very fine and well worthy of cultivation. Native of southern Europe. Ounce 20 cents, pound $2.00.

ERYTHEA ARMATA (Brahea glauca) Blue Palm. Elegant Fan Palm, from the islands of Lower California. Leaves glaucous blue. Hardy; 10 seeds 25 cents, 100 seeds $2.00.

Edulis (Brahea edulis). A rapid-growing variety from the Guadalupe Islands. Fan-shaped leaves, bright green Hardy; 10 seeds 15 cents, 100 seeds $1.00.

PHOENIX CANARIENSIS. An elegant, hardy variety of the Date Palm, much used around Los Angeles on lawns. Handsome and durable; 10 seeds 10 cents, 100 seeds 50 cts.

Dactylifera. The Date Palm; is an erect, handsome palm Native of northern Africa and tropical Asia, where the palm attains a height of 80 ft. Lives to a great age, and yields the date fruit of commerce. Hardy; ounce 20 cents, pound $1.50.

Reclinata. A very fine, large-growing species; leaves pinnate. Will stand severe frosts. A native of the Cape of Good Hope. Hardy; 10 seeds 15 cents, 100 seeds $1.00.

Rupicola. This is one of the most exquisitely graceful palms, and in elegance takes a similar place to that of Cocos Weddelliana. It is of acaulescent habit, with wide-spreading, arching, pinnate leaves; a most valuable acquisition. Native of East Indies. Hardy; 10 seeds 20 cents, 100 seeds $2.00.

Tenuis. This is a very hardy, elegant and desirable variety of Date Palm, with long, bright sea-green leaves; much used for lawn planting; 10 seeds 15 cents, 100 seeds $1.00.

SEAFORTHIA ELEGANS. One of the most elegant of the palm family, and one of the finest subjects in cultivation for the conservatory, greenhouse or subtropical garden. Height 20 ft. Leaves from 2 to 10 feet in length; dark green. It stands quite a low temperature. Native of New South Wales; 10 seeds 15 cents, 100 seeds $1.00.

WASHINGTONIA FILIFERA. The well-known California Fan Palm, also known as Pritchardia filamentosa and Brahea filamentosa; very hardy. Ounce 10 cents, pound $1.00.

Germain **Robusta.** A robust Fan Palm, similar to W. filifera, but with smoother and darker green leaves without threads. Ounce 25 cents, pound $2.50.

DECORATIVE PLANT SEEDS

AGAVE. Six fine varieties, viz., American fol. var. Densiflora, Deserti, Heteracantha, Univittata and Verchaffelti. Each, packet 15 cents. The collection of six varieties for 75 cents.

DRACAENA AUSTRALIS (Cordyline indivisa). Palm-like tree growing to a considerable height; stem is stout; leaves 2 to 3 feet in length, oblong, lanceolate, bright green; splendid for avenues. New Zealand. Packet 15 cts., ounce 75 cts.

Indivisa (Cordyline indivisa). Sometimes called Dracaena stricta. A most graceful palm-like tree, suitable for decoration. New Zealand. Ounce 35 cents, pound $3.50.

MUSA ENSETE (Abyssinian Banana). Native of Abyssinia. This magnificent plant attains a height of 30 feet, the leaves occasionally reaching a size of 20 feet in length by 3 in breadth. Produces no suckers and requires several years to come into flower; dies off like the Sago Palm, the Caryota Palm, and others which flower but once. 10 seeds 15 cents, 100 seeds $1.00.

YUCCA. Siz fine varieties, viz., Aloefolia fol. var., Augustifolia, Filamentosa Quadricolor, Tricolor and Whipplei. Each, packet 15 cents, the collection of six varieties for 75 cents.

Quadricolor. A large and magnificent kind. The upper surface creamy yellow, in the center tinged with crimson and orange-yellow. Mexico; hardy; 100 seeds 25c, 1,000 seeds $2.

FRUIT TREE SEEDS

APPLE, PEAR and QUINCE. The seeds may be planted any time during the winter or early spring. Soak the seeds in tepid water for three days, change the water daily or soak in cold water for eight or nine days. Sow in drills 2 feet apart.

ALMOND, HARD-SHELLED (Prunus amygdalus communis). Pound 25 cents, 100 pounds, market price.

APPLE, FRENCH CRAB. Superior stock. Ounce 15c, pound $1.50.

APRICOT (Prunus Armeniaca). Price on application.

CHERRY, PLUM, PEACH, ALMOND, etc. Follow the cultural directions for the walnut. When young plants appear above ground, plant in nursery rows 3 feet apart.

CHERRY MEHELEB (Cerasus communis). Ounce 15c, lb. $1.50.

LOQUAT (Eriobotrya Japonica). Seed supplied in season. Procurable only in spring. Ounce 10 cents, pound 60 cents.

ORANGE SEED FRESH. See page 81.

PEACH SEEDING (Prunus amygdalus Persica). Price on application.

PEAR (Pyrus communis). Ounce 25 cents, pound $2.50.

PLUM, MYROBOLAN (Prunus communis). A splendid stock to graft on. Ounce 15 cents, pound $1.25.

QUINCE (Cydonia communis). Quinces occasionally vary from the seed variety. The stock is much used for budding and grafting the pear. Ounce 25 cents, pound $2.50.

WALNUT. Plant in beds, during the winter or spring, covering about 1 inch deep, and kept moist, but not until they germinate, which will be in about three or four weeks, according to the temperature. As soon as they crack and show the sprout transplant to the nursery rows, 4½ to 5 feet apart and 6 inches apart in the row. They will grow the first year without irrigation, 6 to 12 inches, and with irrigation, 8 inches to 4 feet; the second year, from 4 to 8 feet, with irrigation. If ordered by mail, add 10 cents per pound to cover postage. Prices subject to fluctuation. Quotations for large quantities will be given on application.

WALNUT, SOFT SHELLED (Juglans regia). A superior variety. Pound 30 cents, 100 pounds on application. Postage 10 cents

WALNUT (Black California). Black Walnut is the most desirable stock for grafting the English variety. Price 15 cents per pound. Special quotation in large quantities.

SMALL FRUIT SEEDS

CURRANT, BLACK. Pkt. 10 cents, oz. 75 cents.

Red. Pkt. 10 cents, oz. 75 cents.

Large Mixed. Pkt. 10 cents, oz. 75 cents.

GOOSEBERRY. Large English Mixed. Pkt. 10 cts., oz. 75 cts.

GUAVA, STRAWBERRY (Psidium Cattleyanum). Sow in boxes and transplant when 2 inches high to pots. Pkt. 10 cents, oz. 50 cents, pound $5.00.

GUAVA, PINEAPPLE (Feijoa Sellowiana). A highly perfumed fruit about 1½ inches in length. Blossoms in May and fruits in November. A delicious pineapple flavor, lacking the acid. Fine for jelly or jam. Sow in boxes and transplant. Seed ready in December. Price per packet 25 cents.

RASPBERRY, FINEST SORTS MIXED. Pkt. 10 cts., oz $1.00.

ROSELLE. The plants grow from 3 to 6 feet high and bear an abundance of handsome flowers, followed by fruit enclosed in a thick, fleshy calyx from which is made an excellent jelly resembling, but an improvement upon that made by the black currant; 10 cents a packet, 50 cents per ounce.

STRAWBERRY, LARGE MIXED. Pkt. 10 cents, oz. 75 cents.

Red Alpine. European wild strawberry. Pkt. 10 cts, oz. 75 cts.

PARTIAL VIEW OF OUR NEW GROWING GROUNDS AT MONTEBELLO
SHOWING IMMENSE LATH HOUSE AND EMPLOYEES OF THE COMPANY

NURSERY DEPARTMENT

We are annually giving more and more attention to our nursery business, both in the growing and distributing end. The young stock in our Whittier Road nurseries, is constantly improving; and the amount of fully grown fine specimens to select from increases annually. We have no overgrown stock or plants that are unsafe to move, as all such stock when it approaches this stage is boxed and taken care of so that it may be moved with perfect safety. All small stock is moved frequently, and grown with plenty of room to develop. Only in this way can perfect specimens be produced. We are again propagating immense numbers of young stock and will be pleased to quote lowest prices in quantity lots.

All Nursery Stock shipped by us is accompanied by a certificate of health, issued and signed by an Inspector of the Horticultural Commission. This insures the shipment of nothing but healthy stock, free of all scale and other insect pests, etc. In view of such precaution being taken, we are not responsible for inspection at destination. Orders for Winter and Spring shipments should be placed as early as possible. Three-fourths of the nursery business is done at that time of the year, and when our busy season starts, we are rushed with orders. All orders are filled in rotation as received.

GARDENERS RECOMMENDED. We are pleased to recommend suitable men as gardeners on application, without any expense whatever.

GUARANTEE. We do not guarantee stock to live, nor will we replace free of cost that which dies or fails to grow as success or failure depends largely upon climatic conditions, manner of planting, after care, etc. We do guarantee, however, that our stock will be in good healthy condition when it leaves our nurseries.

SUBSTITUTION. Where particular varieties are ordered and particular ages and sizes of trees, kinds of stock, etc., it should be stated whether and to what extent substitution will be allowed in case the order cannot be filled to the letter. Where no instructions in this respect accompany the order, we shall feel at liberty to substitute other varieties as nearly similar as possible. If the selection of varieties is left entirely to us, we shall endeavor to send only such sorts as are acknowledged to give general satisfaction.

AS USUAL, five of any one certain variety, will be furnished at 10 rates; 50 at 100 rates; 500 at 1,000 rates.

CLAIMS. Should any errors occur we desire to be informed upon receipt of goods, that we may rectify them without delay. All claims must be filed within ten days after the arrival of shipments. No plants shipped C. O. D.

GENERAL SPECIAL. Express shipments of Nursery Stock travel under what is known as the "General Special" Rate, which is 20 per cent less than the first-class rate. We would advise having small shipments go by express, for while the cost is somewhat more than by freight, the difference is often more than made up by the prompt delivery and careful handling.

CAUTION. Be careful in unpacking to note everything, and either plant, or cover up with moist soil at once. Moisten the roots, and do not allow them to become dry.

TREATMENT BEFORE PLANTING. Before planting, prune off all broken and extra long roots. Peach, Plum, Apricots, etc., should have side limbs and top cut back to at least half the length.

PLANTING. Dig holes large enough to allow the roots of the tree to spread out in their natural position, carefully placing the finest and best soil from the surface in among the roots; when the soil is nearly filled in, throroughly settle the earth by filling the hole with water; after it settles, fill in the remainder of earth. In most soils, the use of water to settle the earth is much better than treading the soil with the foot.

AFTER CULTURE. The ground should be kept loose and free from weeds. It is advantageous in a dry climate to throw around the tree, for a distance of two or three feet each way, a mulch of rough manure or litter. It prevents the ground from drying out and baking.

PACKING CHARGES. We make no charges for packing on retail orders, except on long distance shipments, or when plants or trees have to be specially packed. In such cases, we charge for the actual cost only.

Owing to the fact that all shipments made by freight are required to be packed in square top cases in order to obtain a lower rate and that they may be more conveniently handled and loaded for transit, we are obliged to charge extra for the packing of goods, which charge will range according to size of box, from 25 cents to $2.50.

The rates would be double on all freight shipments by the old method of pyramid top, hence, we recommend for small orders, that shipments be made by express, where possible, as rates are cheaper.

PLANT AND SEED ORDERS should be kept separate, as during our rush season we may run short of some varieties of plants or trees and this sometimes causes a slight delay in receiving consignments from our various growing grounds. The rush of business is terrific during the winter and spring in the Nursery Department and orders cannot always be shipped at once. With our present facilities we hope to have but few delays in filling orders, but in cases where the nursery stock cannot be shipped at once, the seed orders will be shipped at once, and balance of order will follow when ready.

CITRUS FRUIT TREES

California is justly famous the world over for her fruits. The ideal climate, soil and long growing season, give us the best, strongest, healthiest and most perfect young trees that grow. More especially does this apply to citrus fruit trees of all kinds. Germain's reputation as a house of quality, first, last and all the time is your strongest guarantee that your orders will be filled with only the best grade of stock. The young trees have a ball of earth around the roots and weigh approximately thirty-five to forty pounds each. For long distance shipments via express, if a customer so specifies in order, we will remove the dirt from the roots, strip the tree of foliage, and pack the root in moss. This method cuts down the weight to a minimum. Care should be taken not to expose the roots to the air longer than necessary. Citrus trees, being evergreen, can be shipped and planted at any season of the year.

ADVANCE CONTRACTS ON CITRUS FRUIT STOCK

We are now contracting on Orange, Lemon, Lime and Grape Fruit, also Sweet and Sour seed bed stock for spring delivery. All these are grown in our own nurseries under our own supervision and we can therefore assure the purchaser of clean, strong, healthy, thrifty stock. We are in a position to sell you any quantity and we request that you allow us to quote on and show you our stock.

A 2 YEAR OLD BUDDED ORANGE TREE

ORANGE SEED BED STOCK

Germain's is hea uarters for and the largest grower of orange seed bed stock (see ing orange trees), both sour and sweet stock, in California. climatic conditions are so vital in the growing of young citrus trees, we cannot possibly name a fixed price for this stock. We will be pleased to quote at any time and on any quantity for spring delivery. Our stock is the best, cleanest and truest stock that can be bought. Let us quote you.

ORANGE SEED

SOUR ORANGE SEED. Germain's has, for years, been California's largest importer and headquarters for sour orange seed. Our stock is the best money can buy, being selected by experts from the best stock grown in Cuba and Florida. The demand is always greater than the supply, and we cannot, therefore, urge you too strongly to place your order at the earliest possible moment. Prices are subject to market fluctuations. Write us immediately for quotations and further information.

SPECIAL $4.50 CITRUS TREE COLLECTION FOR 1918

Our splendid growing facilities enable us to offer a remarkable bargain on citrus trees. Sturdy and healthy 2-year-old budded stock that will yield a wealth of fine, big Oranges, Lemons and Grapefruit. The collection is 1 Naval Orange, 1 Valencia Orange, 1 Lemon and 1 Grapegruit tree all for $4.50 and f. o. b. Los Angeles. Additional trees of above varieties 85 cents each. Write for special quotations on large quantities.

Packing charges 50 cents extra.

ORANGES

KUMQUAT (The Kin-Kan of Japan), meaning Gold Orange. Fruit very small, olive-shaped, the rind is orange yellow and has a pleasant aroma; used by the orientals for preserving. The tree is dwarf and ornamental. May to July; $2.50 each.

TANGERINE (Dancey's). The standard variety, ripens at the same time as the navels; pulp is sweet and separates freely from the rind. Best of the Mandarin family. March; $2.50 each.

VALENCIA LATE. A late and prolific bearer, fruit medium size, oval, solid and heavy; flesh exceedingly juicy and sweet. The other of the two most profitable and world famous oranges. Fruit medium size, very few seeds, sub-acid flavor; ripens late and keeps well on the tree throughout the summer. Season from June to September. The best late orange: $1.50 each.

WASHINGTON NAVEL. One of the two most profitable oranges grown. World famous. Derives its name from the formation on the blossom end. A regular bearer of large, luscious fruit of the most delicious flavor. Fine shipper, ripens early. Season from November to May. The best early orange; $1.50 each.

LEMONS

EUREKA. The celebrated California Lemon and the favorite shipping commercial variety. Undoubtedly the best of all Lemons. Medium size fruit, having few seeds; heavy, juicy and well flavored. A good keeper, tree thornless and a most prolific bearer. The variety most largely grown in California. $1.00 each.

SEEDLESS EUREKA. Stands more frost than the old standard Eureka and is absolutely free of seeds. This stock went through the heaviest frost California ever had and are very thrifty growers and produce a third more than the ordinary Eureka. Price: ½ inch to ⅝ inch caliper, $2.00; ⅝ inch to ¾ inch, $2.50 each.

LIMES

Bearss Seedless Limes.

Germain

BEARSS SEEDLESS LIME.—The best lime grown. Large, being about the size of ordinary lemons. More juicy and thinner skin than any Mexican variety. Perfectly seedless. We hold a fine stock of good straight two year old trees, at $2.50 each.

POMELO or GRAPE FRUIT

MARSH'S SEEDLESS. The best and most popular variety of the Pomelo. Seedless and sweet; can be eaten without sugar when fully matured. Medium size, rind thin, flesh dark and rich; an early and prolific bearer and a late keeper. $1.50 and $2.00 each.

TROPICAL FRUIT TREES

AHUACATE

Avocado or Alligator Pear

The Ahuacate, while usually called a tropical fruit, is not confined to the tropics, but is also found in the frosty districts and high levels of Mexico. The Ahuacate has not been given sufficient tests in the colder localities and we cannot recommend varieties for these districts; we list only those varieties which are suited to the weather conditions under which citrus fruits are grown. Tests have shown, however, that the Ahuacate will stand more frost than orange trees.

The Ahuacate serves the double purpose of a valuable fruit and vegetable, as it can be prepared in so many ways that it takes the place of other vegetable products. Its mellow, buttery flavor appeals to every palate. It is a fine substitute for meat, being a food of the highest nutrition. The Mexicans have a very pretty custom in eating this fruit, viz: They halve the fruit and take out the seed; thus each half forms a cup, which is filled with a salad dressing. This enables the dressing to thoroughly permeate the meat and makes very delicious eating. It can also be served as a breakfast food, a fruit salad, a vegetable salad. An excellent refreshment at any time, and is always served in a raw state.

The Ahuacate, aside from its productiveness, is equally as well classed as an ornamental evergreen. A tree, properly pruned and taken care of, will form one of the most beautiful ornaments to any yard, where its waxy, oblong leaves and yellowish green flowers are always attractive.

SEEDLING AHUACATES

We can supply seelding trees at the following prices: 18 inch 75 cents each; 2 feet $1.00 each; 3 feet, $1.25 each; or, in quantities of 100 at $50.00 to $75.00 per hundred respectively.

BUDDED TREES

We can supply budded trees in the following varieties:

BLAKE. Pyriform, bottle necked; length 3½ to 4 inches, diameter 1¾ to 2¼ inches; smooth surface, color light green, thin skin; flesh creamy yellow, texture smooth and buttery, with rich oily flavor of good quality; medium sized seed. This variety is believed to be related to the Fowler, the real difference being the shape. Season, September to October. Price $2.50 and $4.00 each.

EELLS (Northrup). This variety is pear shape, of medium size, deep purple color, flesh is firm, of a yellowish hue, and has a rich, nutty flavor of the highest quality. The tree bears two crops a year, one in the spring and one in the fall. Price, $3.00 and $5.00.

GANTER. Color light green, thin skin; flesh yellowish cream, changing to pale green near the skin; rich, nutty flavor; large seed. Form oval to oblong; length 2½ to 4 inches; diameter 1¾ to 2¾ inches. $4.00, $5.00 and $7.50 each.

Original tree at Whittier, California. Fruits October to December. 3 to 4 feet, $10.00; 5 feet and up $15.00 each.

HARMAN. Form oval, large fruit, length 3 to 4½ inches, diameter 2 to 3½ inches. Smooth, glossy, light green color, changing to reddish purple, with numerous large, irregular, yellowish dots. Flesh greenish yellow, very buttery, very little fibre. Flavor very rich and nutty. Large seed. Fruiting season, October to November. From original tree at Sherman, California. Price, $3.00, and $5.00 each.

HOLLENBECK. Grown in Pasadena and similar in description to the Fowler; $5.00 and $7.50 each.

MESERVE. Nearly round, easy to pack and ship; skin green and thick enough to stand shipping. Weight about 1 pound. Seed tight in cavity. Flavor rich and buttery. Hardy and prolific. Fine near the coast. Fruiting April and May. Price $3.00 and $4.50 each.

SKINNER. This variety is very hardy; the parent tree is growing in a cold location and does not freeze. The fruit is same color as Eells, dark purple, but not quite as large nor as highly flavored. Price, $3.00 and $4.50 each.

TAFT. A fine pear shaped fruit, weighing 14 to 20 ounces. Skin green, smooth, thick and tough, a good shipper. Flesh light yellow, smooth texture, good flavor. Seed medium size, tight in cavity. Season, May, June and July. Price $3.00 and $4.50 each.

GANTER AHUACATE

CHERIMOYA

Anona Cherimolia or Custard Apple

An excellent tropical fruit which has been classed as one of the finest fruits in the world. It is not a new introduction, but has been growing in California for many years—a native of Central America.

A handsome tree, with broad, velvety green leaves; sometimes deciduous for a short period during the winter months. Is suitable for citrus localities. The fruit is heart shaped, or oval, greenish brown in color about the size of navel orange, skin is usually covered with small, conical protuberances. Flesh white, melting, custard-like pulp, with flavor similar to the pineapple, and is liked by all. Ripens during spring months. Price $.75 and $1.00 each.

FEIJOA SELLOWIANA

or

The Pineapple Guava

Resembling in growth and character the common guavas, being also of the Myrtle family. Grows to a height of 8 to 10 feet; often used as a hedge, as it is very ornamental. Fruit the size and shape of a hen's egg, green in color, with sometimes a crimson cheek; granular flesh, becoming white as it nears the seed, with a most delicious flavor, combining the pineapple, raspberry and banana. Seeds are small, almost unnoticeable when eating the fruit, being no larger than strawberry seed. Commonly eaten out of hand, but can be cooked in many ways. Fine for jams and jellies. A good keeper and shipper. Easily cultivated, requiring very little water after becoming established. However, frequent irrigations during dry season greatly encourage growth.

The Feijoa was introduced from France. It has proven very hardy in California, and is known to stand a temperature as low as 12 degrees above zero. Everyone should have at least a few Feijoas in the garden. Ripens from November to January. Price, 50c, 75c, $1.00, up to $2.00.

GUAVA

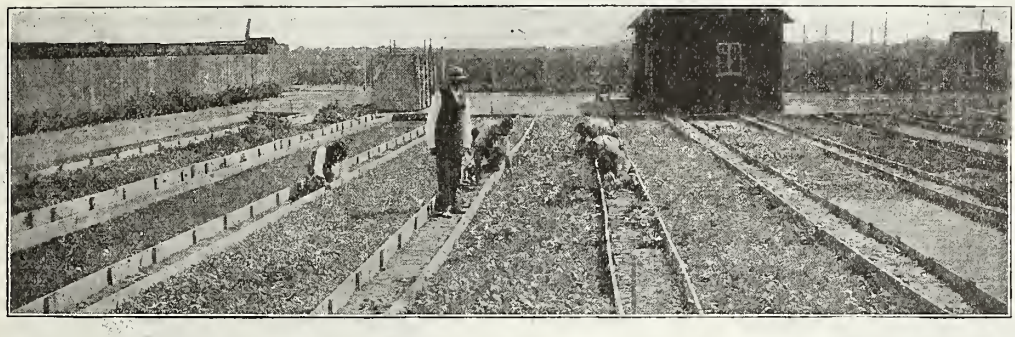
STRAWBERRY. A shrub or small tree of bushy growth. Very heavy bearer, producing fruit of a strawberry flavor the size of a small plum. Fruit round, deep red; very fine for table, preserves or jellies. Every home should have a few of these valuable plants in the garden; 25 cents, 35 cents and 50 cents each.

YELLOW STRAWBERRY. Similar to Strawberry Guava but greatly superior in flavor. Excellent for preserves; 50 and 75 cents each.

VEGETABLE PLANTS AND ROOTS

Our facilities for growing the best class of vegetable plants are second to none and superior to any others we know. The plants are iven plenty of room. They are grown in the clear air in our trial grounds on the Whittier road and they are the product of our own elected seeds. We always carry large stocks and can usually take care of any orders that may be entrusted to us, but we would apprelate the favor of as long notice as possible when large quantities of any one kind are desired.

Postage—When ordered to be sent by mail, remit, in addition to price: for asparagus roots, 50 cents per 100: cabbage, cauliflower, weet potato, tomato, pepper plants and horseradish roots, 5 cents per dozen, 35 cents per 100; rhubarb roots 5 cents each; eggplants, 5 cents per dozen: chives, 3 cents per clump.



Vegetable Plants Growing at our Trial Grounds

ARTICHOKE

Germain **GREEN GLOBE.** Germain's selected. We have the finest strain of this favorite vegetable in existence and onsequently have given up the cultivation of all others. Stock scarce and we offer subject to being unsold on receipt of order; cents each, $2.50 per dozen.

JERUSALEM. The favorite root kind. Roots during the dorant season 15 cents per pound, $8.00 per 100 pounds.

ASPARAGUS

Our plants should not be confused with the cheap eastern ock shipped in. They are all grown here on our own grounds.

GIANT ARGENTEUIL. A mammoth variety of vigorous owth, sending up from fifteen to twenty shoots. One and two ear-old roots; 25 cents per dozen, $1.75 per 100; $8.00 per 1000.

PALMETTO. A standard among the asparagus shippers of alifornia. This strain grows to mammoth proportions, and ry even in size, which makes it especially popular with shippers. he shoots are a light green, slightly tinted with pink, and tender unusual length. Two year old roots 25 cents per dozen, $1.75 r 100 and $8 per 1000.

CONOVER'S COLOSSAL. A mammoth white variety of vigous growth. 25 cents per dozen; $1.75 per 100; $8.00 per 1000.

GIANT WINTER CRIMSON RHUBARB

CABBAGE

EARLY WINNIGSTADT, PREMIUM FLAT DUTCH AND CANNON BALL. 10 cents per doz., 50 cents per 100, $3.00 per 1000.

RED DRUMHEAD. Large and very solid heads, used for pickling, color, deep red; 10 cents per dozen, 50 cents per 100.

CAULIFLOWER Snowball—the best variety of Cauliflower; 15 cents per dozen, $1.00 per 100, $5.00 per 1000.

For Cabbage Seed see pages 12 and 13.

CELERY

GOLDEN SELF-BLANCHING and **WHITE PLUME;** 15 cents per dozen; $1.00 per 100; $8.00 per 1000.

CHIVES OR SCHNITTLAUCH. For flavoring soups or salads; 10 cents per large clump, $1.00 per dozen clumps.

EGGPLANT. Grown in flats at $3.00 per 100; in pots 50 cents per dozen, $4.00 per 100.

HERBS

Lavender, Sage, Rosemary, Thyme, Catnip, Mint, Parsley, and other herbs at 15 cents each.

HORSERADISH. Always in big demand and a profitable crop to grow. Fine sets 15 cents per dozen, $1.00 per 100.

KALE. A good vegetable in a cold climate, but in California principally used for chickens and stock; 10 cents per dozen.

PEPPERS. Anaheim Chili, Chinese Giant and other popular kinds; 20 cents per dozen, $1.25 per 100.

RHUBARB

In growing rhubarb there is a great difference in varieties. We recommend the **GIANT WINTER CRIMSON** for it is the finest variety in existence for home use and the biggest money maker for the trade. It is always in bearing and does not go to seed early in the year, like many other varieties. We stock the true variety grown from subdivisions of the raiser's own plants supplied to us direct. We also handle seedling roots of which at least ninety per cent come absolutely true to type. Our trials show even a higher percentage. Prices for subdivisions 50 cents each; $5.00 per dozen; $40.00 per 100. Seedlings 25 cents each, $2.00 per dozen, $12.50 per 100. Larger roots 30 cents each, $3.00 per dozen, $20.00 per 100.

WINTER CRIMSON; 10 and 15 cents each, $1.00 and $1.50 per dozen.

MONARCH, STRAWBERRY, VICTORIA, and other varieties; 10 and 15 cents each, $1.00 and $1.50 per dozen.

TOMATO

BEEFSTEAK. A large, meaty tomato very popular in the local markets; 15 cents per dozen, $1.00 per 100, $7.00 per 1000.

EARLIANA. An early ripening, finely colored variety of good flavor; 15 cents per dozen, $1.00 per 100, $7.00 per 1000.

NEW STONE. The greatest shipping tomato ever raised for late use. Fruit bright red with few seeds and extra firm; 15 cents per dozen, $1.00 per 100, $7.00 per 1000.

For Tomato Seed see pages 36 and 37.

BERRY PLANTS

ELEAGNUS
OR JAPANESE MOUNTAIN CURRANT

ELEAGNUS, OR JAPANESE MOUNTAIN CURRANT

A new and rare variety of currant, but recently introduced into this country. It is a native of Japan. It has been grown very successfully in this vicinity by an expert grower and found to be very superior to other varieties of currant. It grows 12 feet in height and diameter, completely covered with delicious sub-acid flavored eatable berries. Evergreen. Will stand a great deal of frost and drought. Fine for jelly, pies, etc. Also good for decorative purposes during the bearing season. Price 50c and $1.00. (See illustration).

BLACKBERRIES

CRANDALL'S EARLY. Ever-bearing, large and firm; good flavor, bears the entire season, ripens early, one of the best. Per dozen, 50 cents, $3.00 per 100.

HIMALAYA GIANT. A remarkable grower, canes growing 40 feet in a single season. It should be trained on a trellis; a tremendous bearer and good shipper. Very few seeds. For canning and jams it has few equals and is also a fine table fruit; 15 cents each, $1.00 per dozen, $7.00 per 100.

MAMMOTH BLACKBERRY. A mammoth in growth and unlike any other blackberry plant. In a favorable season it has attained a growth of 20 feet. The foliage is large and thick and of a deep green color. Fruit is enormously large, some berries being 2¼ to 2½ inches long; ripens three weeks before other kinds. To obtain best results plant upon a trellis, which should be set 10 feet apart and set the plants 6 to 8 feet in the rows. 10 cents each, 75 cents per dozen, $5.00 per 100.

CURRANTS

Prices 15 cents each, $1.25 per dozen

Currants do not thrive in the dry heated air of the interior, but do well near the coast.

BLACK NAPLES. Large, black, fine for jams and jellies; 15 cents each, $1.25 per dozen.

CHERRY. Very large, deep red, fine for preserves; productive; 15 cents each, $1.25 per dozen.

FAY'S PROLIFIC. Fully as large as the cherry; early and productive. One of the very best; 15c each, $1.25 per dozen.

DEWBERRIES

GARDENA. The most popular and best of this class of berries and has proven a great success. Ripens two weeks earlier than any of the Blackberries; berries large, glossy black, sweet and rich. Fine for market and bears very heavy; 10 cents each, 50 cents per dozen, $2.50 per 100.

LUCRETIA. Produces an abundance of large, glossy black fruit, of excellent quality. Ripens ten days later than the Gardena; 50 cents per dozen, $2.50 per 100.

GOOSEBERRIES

The Gooseberry does not thrive in a hot dry climate, but requires a cool and foggy atmosphere. They also produce heavily in mountain sections at an elevation of 5,000 feet.

DOWNING. Fruit of good size, light green, oval, skin smooth fine flavor; 15 cents each, $1.50 per dozen.

HOUGHTON. Fine grower and a good bearer, pale red fruit sweet and juicy; 15 cents each, $1.50 per dozen.

JOSSELYN. Fine grower and prolific bearer. The freest of al all gooseberries from mildew, both in leaf and fruit, making i a good berry for the coast. Price 20 cents each, $2.00 pe dozen.

LOGANBERRY

LOGANBERRY. A cross between the raspberry and the black berry, and partaking of the flavor of both, only more delicious than either. Seeds few; ripens early. Fruit very large dark red and produced in immense clusters. The bes results are obtained by growing on a low trellis. Plant in row seven feet apart and six to eight feet in the row; 10 cents each 75 cents per dozen, $5.00 per 100.

RASPBERRIES

BLACK CAP. We have had many calls the last few seasons fo Black Cap Raspberries, but we did not carry them in stock as we had not been in a position to get a variety that woul do well in Southern California, but we are prepared this seaso to supply "Black Caps" that are an excellent berry and wil prove satisfactory in every way. 15 cents each, $1 per dozen $7 per 100.

CUTHBERT, RED. Berries very large, rich red, flavor good a fine shipper, one of the most popular of all Raspberries 50 cents per dozen, $2.50 per 100.

EARLY SURPRISE. A splendid new Raspberry similar i form and color to the Cuthbert. Begins to ripen in April continuing during the entire berry season; growth ver strong; the earliest berry of all to ripen; 15 cents each, $1.0 per dozen, $7.00 per 100.

GOLDEN QUEEN. The best of all yellow varieties, sometime called "Yellow Cuthbert." Fine flavor and very palatable Makes fine jelly and preserves; 15 cents each, $1 per dozen, $ per 100.

STRAWBERRIES

Prices 20 cents per dozen, 75 cents per 100, $4.50 per 1,000

WINNER. Ripens from early spring to late fall; a sure and con tinuous bearer. Large, dark red, when ripe. Very prolific.

BRANDYWINE. Plant a luxuriant grower. Fruit large, conical flesh firm, glossy red, of fine quality. A medium to late variety exceedingly popular, heavily grown and a splendid shipper.

EXCELSIOR. The earliest strawberry and the best winte bearer. Round, medium good flavor, color pale red. Bring high prices as a winter berry.

KLONDIKE. A medium early variety of recent introduction Fruit beautiful and uniform in shape; a rich blood-red i color; juicy and delicious in flavor. Well worth planting.

DECIDUOUS FRUIT TREES

NOTE—Deciduous Fruit, Nut Trees and Grapes comprise all fruit trees that drop their leaves early in the winter and remain in a dormant condition until the sap starts running again in the spring. Shipping and planting season starts the first part of January, and ends generally the middle of April, according to the earliness or lateness of the season. Customers desiring early shipment should place their orders early, as all orders are filled in rotation as received.

APPLES, WINTER VARIETIES

Prices 35 cents each, $3.25 per 10.

BALDWIN APPLE

BALDWIN. Very productive, large, round, deep bright red, juicy, crisp, subacid, of fine flavor. A great market variety. One of the most popular winter apples. November to February.

MISSOURI PIPPIN (Stone's Eureka). Admirably adapted to Southern California; large, round, yellow, striped with red. Flesh white and moderately juicy. A very good bearer. Fine for market. November to April.

ROME BEAUTY. Large and roundish, yellow shaded and striped with bright red. Flesh yellowish, juicy and sprightly. Good late keeper. One of the very best varieties for the mountain valleys of Southern California. November to February.

WHITE WINTER PEARMAIN. One of the universal favorite and extensively grown apples in California. A big commercial variety. Flesh yellowish, crisp, tender and juicy, with an elegant subacid flavor. A strong and healthy grower. Succeeds well in all parts of the State. November to January.

WINESAP. Medium size, roundish oblong. Color of skin, dark red. Flesh yellow, crisp and rich flavor. A good bearer and largely grown. An excellent table variety and one of the best for cider. November to February.

YELLOW BELLEFLEUR. Particularly adapted to California and one of the best commercial varieties. Very large, oblong, lemon color; flesh firm, tender, juicy and crisp. Good keeper. Tree strong and healthy grower. October to January.

YELLOW NEWTOWN PIPPIN. Considered one of the best winter apples in California. Large golden yellow. Flesh firm and crisp, with a very rich high flavor. January to May.

APPLES, SUMMER VARIETIES

Prices 35 cents each, $3.25 per 10.

EARLY HARVEST. Medium size, roundish, light yellow, flesh very white, tender and crisp. Fine for table and cooking. Early June.

RED JUNE. Early, oblong in shape, medium size, deep red color. One of the best table varieties. June to July.

RED ASTRACHAN. One of the best commercial varieties. An early bearer; tree vigorous and hardy, flesh white, crisp and juicy, with a pleasant acid flavor. July.

APPLES, FALL VARIETIES

Prices 35 cents each, $3.25 per 10.

FALL PIPPIN. Very large, roundish, a little flattened, skin yellowish green, flesh white, tender and mellow. A heavy bearer and one of the best Fall apples. September.

GRAVENSTEIN. Tree a vigorous grower, fruit large, skin yellow splashed with red and orange, flesh tender, crisp and highly flavored, a strong growing and heavy bearing tree. A standard fall apple in this State. August.

WINTER BANANA. A comparatively new variety. Fruit large and well formed, yellow shaded with red. Flesh yellow with a rich aromatic sub-acid flavor of the best quality. Heavy bearer. September.

RHODE ISLAND GREENING. Large and round. A fine apple for table cooking. Flesh yellow, fine grained, tender, crisp, juicy, slightly acid. A healthy and very popular tree. October and November.

JONATHAN. Medium size, conical. Skin light yellow, with red stripes, and deep red in the sun. Flesh tender, juicy and rich. One of the best apples for Southern California, including the Mountain Valleys and Plateaus. October to December.

APPLES, CRAB

Prices 35 cents each, $3.25 per 10

The crab bears when quite young and generally bears heavily every season. They seem to succeed equally well in cold or hot climates, and the value of their fruit for cooking, jelly and cider is recognized to the extent that the demand for them in the market exceeds the supply

YELLOW SIBERIAN. Large, fine golden yellow.

RED SIBERIAN. Fruit small, fine flavor.

TRANSCENDENT. Fruit large, crisp and juicy. Skin yellow striped red. Tree very productive. Considered the best of the crabs, especially fine for preserves and jellies.

APRICOTS

Prices 50 cents each, $4.50 per 10

BLENHEIM. Large, oval, orange with a deep yellow, juicy and fairly rich flesh. Ripens a little later than the Royal.

MOORPARK. Large, greenish yellow, shading to red on sunny side and somewhat dotted. Fruit of highest quality and excellent flavor. Ripens in late August.

NEW CASTLE. Medium size, round, best early variety, ripening from two to three weeks earlier than Royal.

ROYAL. More extensively planted than any other variety; fine for canning and drying. The leading California Apricot. Large size, free stone, fine color and flavor. Good bearer. Fruit large and roundish. Skin yellow, slightly tinged with red. Flesh pale orange, firm and juicy, with a rich vinous flavor. Early June.

TILTON. Large, oval, slightly compressed; flesh firm, yellow, parts readily from the stone; heavy and very regular bearer. Seems to be more exempt from late frosts than other varieties.

CHERRIES

Prices 50 cents each, $4.50 per 10

Cherries bear better when associated with another variety, causing cross-fertilization.

BLACK TARTARIAN. Fruit of the largest size, bright purplish black. Flesh purplish, juicy, of a very rich flavor. Tree a very vigorous, erect and splendid grower; an immense producer. The best of the black cherries.

EARLY RICHMOND. An old favorite; color red, subacid flavor, early, hardy, healthy and productive.

NAPOLEON BIGARREAU (Royal Ann). A splendid cherry of the largest size, pale yellow, spotted with red, bright red cheek. Flesh very firm, juicy and sweet. Tree a free grower and an enormous bearer. Will bear better if planted with Black Tartarian, which will act as cross-pollenizers.

YELLOW BELLEFLEUR APPLE

DECIDUOUS FRUIT TREES

FIGS

3 to 4 foot trees, 50 cents each, $4.50 per 10. Kadota 50 and 75 cents each.

BLACK MISSION (California). The oldest Fig in California and one of the best for home use. Tree a strong grower, skin rough, deep mahogany violet, tinged with red. Flesh sweet.

BLACK SPANISH. Largest of all, skin smooth, violet black green neck; pulp red, coppery, tinged with violet. Fine for table.

BROWN ISCHIA (Brown Turkey). A very large, brown Fig. Probably the earliest large brown grown. Color, violet brown. One of the best market Figs, bringing heavy returns.

CALIMYRNA (Smyrna). The genuine fig of commerce of Asia-Minor. Large size, skin lemon yellow, pulp reddish amber. The flavor and quality of this Fig are unsurpassed. It is necessary to cross the variety with the wild or Capri Fig, which harbors the Fig wasp necessary to carry the pollen and fertilize the Calimyrna, otherwise the fruit will drop before maturity. The fig wasp can be secured from almost any fig grower, and if placed in an orchard of any size, after the Capri Fig is large enough to produce pollen for it, it will thrive through a winter and will not need replenishing. But if there are only one or two trees, the wasp will starve for want of pollen, and in this case anew one will have to be secured each season.

CAPRI. The wild Fig which must be grown in connection, and associated with the Calimyrna (Smyrna) Fig, the ratio being two Capri trees to one acre of Smyrna; 75 cents and $1.00 each.

KADOTA. A white fig of medium size. Prolific bearer. Trees bear when very young. Price special as above.

WHITE PACIFIC. Greenish yellow skin; a regular, heavy bearer. Fruit is medium size to large, with very sweet meat, fine for eating out of hand.

WHITE SMYRNA. A compact grower of sprea ing habit. Thin skinned, greyish green in color, and a splendid table fig.

NECTARINES

Prices 35 cents each, $3.25 per 10

BOSTON. Tree hardy and productive; fruit large and handsome, bright yellow, with deep red cheek; flesh yellow and sweet, with pleasant flavor, freestone. A favorite in California.

HARDWICKE. Probably the best bearer, a favorite in Southern California. Fruit very large, skin pale green, with deep violet red cheek; flesh pale greenish and high flavored, freestone.

LORD NAPIER. Pronounced best in flavor at the Pomona Experiment Station. Recommended as a heavy and regular bearer. Large, pale cream color with dark red cheeks; flesh white, melting, tender and juicy, separating freely from stone.

NEW WHITE. One of the most popular varieties and more freely planted than all other Nectarines combined. Used largely for drying. Fruit large, skin white with slight traces of red; flesh white, tender, very juicy, rich flavor.

STANWICK. One of the leading varieties of Nectarines. Large size. Skin greenish white, shading to red on sunny side. Flesh white, tender and juicy, delicious flavor. Fine for drying and good shipper. Season, August and September.

PEACHES, WHITE FREESTONE VARIETIES

Prices 35 cents each, $3.25 per 10

ALEXANDER. Most widely known as best early variety. Fruit medium to large, greenish white, nearly covered with deep red. Juicy and sweet. Early in June.

BRIGGS' RED MAY. Early, very popular; fruit medium to large; skin greenish white with red rich cheek; juicy and sweet. A standard early variety. Middle of June.

GEORGE IV. Medium to large fruit; tender and sweet, white with red cheek; flesh pale, juicy and rich. A very popular table variety. End of August.

PEACHES, YELLOW FREESTONE VARIETIES

Prices 35 cents each, $3.25 per 10

CRAWFORD EARLY. Very large, oblong, skin yellow, with fine red cheek; flesh yellow, rich and excellent; tree very healthy and productive, probably the most largely planted variety in California. Last of July.

CRAWFORD LATE. Very large, yellow with dark red cheek; flesh yellow, juicy and melting, flavor very rich. An old, popular and widely grown variety. August.

ELBERTA. Very large, a bright yellow with a beautiful mottled red cheek; flesh yellow, juicy, sweet, high flavored and a perfect freestone. Tree a strong grower, a healthy heavy bearer. One of the best paying varieties for the Southwest. July.

FOSTER. Fruit large, yellow, red on cheek, early, rich and juicy; fine for canning or drying. Uniformly large; flesh yellow, very rich. Last of July.

LOVELL. This magnificent peach stands at the head of all other varieties and is a clear yellow, freestone. Its only rival is the Muir, which has very much the same resemblance. It dries heavier than any other variety, and is a good canner, a vigorous grower, heavy bearer and very productive. August.

MUIR. Fruit large to very large; perfect free-stone; flesh clear yellow, very dense, rich and sweet; pit small, a good bearer and strong grower. One of the most popular varieties for canning and especially adapted for drying. August.

SALWAY. Large, round, skin downy, creamy, rich, clear, crimson cheek; flesh deep yellow, red at the pit, juicy and sweet. A standard late peach. Tree very healthy. September.

SUSQUEHANNA. Large, skin rich yellow, nearly covered with red; flesh yellow, sweet, juicy, with rich flavor. Very widely distributed and popular. August.

PEACHES, CLINGSTONE VARIETIES

Prices 35 cents each, $3.25 per 10

HENRIETTA CLING (Levy's Late). Latest of all clings and highly esteemed for canning and market. A magnificent Peach of large size, skin a deep yellow, flesh deep yellow, firm, sweet and juicy. September.

LEMON CLING. Fruit large, lemon shaped, red on sunny side; rather acid in flavor. One of the most popular of all the canning peaches. A heavy and regular bearer. August.

ORANGE CLING (Runyon's). Superior to the common Orange Oling, and not subject to mildew like the common sort. Fruit very large, yellow, with dark crimson cheek, rich, sugary and vinous flavor. July. 3 to 4 ft, 35c.; 4 to 6 feet, 50c each.

PHILLIP'S CLING. Preferred by canners to all other clings. Fine large yellow, no color at pit, which is very small, very rich and high colored, flesh of the finest texture. September. 3 to 4 ft. 35 cents; 4 to 6 feet 50 cents each.

TUSCAN CLING. A good shipping and canning Peach. Very desirable on account of its earliness. One of the most popular peaches among canners and always in heavy demand. July. 3 to 4 feet 35 cents; 4 to 6 feet 50 cents each.

WHITE HEATH CLING. Very large, white with light shade of red; tender and sweet; good for canning. One of the best clings. Best adapted to interior regions. September.

OLIVES

Size 3 to 4 ft. 75 cents; 4 to 6 ft. $1.00 each

MANZANILLO. The finest Seville Olive, valuable for pickling and oil. Fruit is very large, of a deep black color. Makes fine green and ripe pickles of the very best quality and produces oil of highest grade. Prolific bearer. Early October.

MISSION. A standard. Introduced from Spain many years ago. Fruit medium to large, makes an extra fine green or ripe pickle.

LOQUAT

An evergreen tree attaining a height of fifteen to twenty feet, large glaucous leaves of a compact habit. Valuable as an ornamental, shade and fruit tree. The fruit is very desirable and popular; makes splendid jelly. One of earliest fruits to ripen.

SEEDLINGS. "Specimen plants," balled or in five gallon cans; $1.00 to $1.50 each.

TAFT'S ADVANCED BUDDED LOQUAT. Much larger than ordinary loquat, very sweet and juicy. 3 to 4 feet $2.00, 4 to 5 feet $3.00.

BARTLETT PEAR

PEARS, EARLY VARIETIES

Prices: 4 to 6 feet, 50 cents each, $4.50 per 10

BARTLETT. The most famous and popular of all Pears, and the best for table, shipping, drying and canning. Fruit large, smooth, clear yellow; flesh white, fine grained, juicy and highly flavored. August. See illustration.

MADELINE. The earliest, fruit medium pale yellow; flesh white, juicy and delicate. June and July.

SECKEL. Small but of superlative table excellence; color yellow russet with red cheek; flesh white, very juicy and melting, with a peculiar rich, spicy flavor and aroma. August to September, 3 to 4 feet size.

PEARS, WINTER VARIETIES

FLEMISH BEAUTY. Large pale yellow pear; flesh juicy and melting, prolific bearer and hardy. September and October.

WINTER BARTLETT. Fruit large, greatly resembling the famous Bartlett in shape, appearance and flavor, but a little coarser, ripening four months later. Flesh tender, juicy and melting and as good as can be desired. November.

WINTER NELIS. Medium, skin yellowish green, dotted with russet; flesh yellowish-white, fine grained, exceedingly juicy and sweet, a fine shipper and splendid keeper. Especially adapted to a warm dry climate. December.

DECIDUOUS FRUIT TREES

SATSUMA PLUMS

JAPANESE PERSIMMONS

Large size 50 cents, medium size 35 cents

A valuable acquisition to our fruits. The trees are hardy and rive where the thermometer does not drop below zero. Permmons are becoming more popular each season, especially r winter fruit, and always realize a high figure on the market.

OSHIO. Very large, round—somewhat flattened, three to three and a half inches in diameter. Average weight, ten ounces. Sometimes yields fruit sixteen ounces in weight. Flesh red. Fruit keeps well. Tree is very ornamental.

ACHIYA. Acknowledged best. Large. Skin orange-red; flesh yellow, soft and jellylike when ripe. Almost seedless.

YAKUME. Very large; skin orange yellow; flesh dark brown, sweet, crisp, and meaty. Not astringent like the preceding one, but good while yet hard.

ANE-NASHI. One of the largest. Fruit almost spherical. Skin yellow, flesh yellow and seedless. The best of the light-fleshed kinds, fine quality and abundant bearer.

POMEGRANATES

PAPER SHELL. A new, thin skinned variety, as the name indicates, of very fine quality. Will bear first year. 50cts each.

PLUMS

Prices: 4 to 6 ft. 50 cents each, $4.50 per 10.

BURBANK. The best of the Japanese varieties. Fruit large, round, red, flesh yellow, sweet with a very pleasant flavor.

CLIMAX. Very early, large size, fine color; delicious flavor; the leader in early shipping plums; tree vigorous and productive.

DUARTE PLUM. The best of all the new Plums; originated by Mr. Luther Burbank some years ago, but never disseminated. Skin deep purple, big yellow dots, blue bloom. Flesh purple crimson, nearly freestone, very rich, delicious commingling of flavors. Tree upright, hardy fine grower, never failing bearer, abundant. August, 75 each.

GREEN GAGE. Pale green, small, round, juicy, of fine flavor.

KELSEY JAPAN. Ornamental and a splendid bearer; fruit large, light red, when ripe of splendid quality.

SANTA ROSA. The fruit is of a dark purplish crimson in color, the flesh being pale amber near the skin. The quality is unsurpassed and is a valuable plum for both shipping and home uses. Ripens about two weeks earlier than the Burbank. The tree is a splendid grower and of excellent bearing qualities. Fruit of beautiful appearance and delicious flavor; 50c each.

SATSUMA. Large, flesh red, firm, solid, juicy, and of fine flavor.

WICKSON. A deep cherry red; flesh amber, very juicy and delicious flavor. A small pit; ripens early in August and is a valuable shipping plum.

PRUNES

Prices: 4 to 6 ft. 50 cents each.

FRENCH PRUNE. Violet purple, rich and sugary, medium size, productive, fine for drying, therefore planted extensively.

HUNGARIAN PRUNE (Pond's Seedling). Very large, reddish violet, juicy and sweet; a vigorous tree and strong bearer; fine for shipping or home market.

SUGAR. Early, tree vigorous, fruit carries a high percentage of sugar, flesh dark purple, tender and rich.

TRAGEDY. A valuable early variety. Medium to large, dark purple; flesh yellowish-green, sweet and well flavored, freestone. Fine for eating out of hand. July.

VAN DEMAN QUINCE

QUINCES

Prices 35 cents each, $3.25 per 10

APPLE OR ORANGE. Large, fine golden yellow color. Fine for preserves or flavoring, productive and popular. The variety most largely cultivated. September.

CHAMPION. Fruit yellow, large and handsome, bears early, and is more productive than the above. Cooks tender and is of excellent flavor.

PINEAPPLE. Originated by Luther Burbank. The result of extensive experiments to secure a quince that would cook tender like an apple. The name comes from its flavor, which is suggestive of the Pineapple. Makes an elegant jelly, or can be eaten raw. Late August.

SMYRNA. Fruit very large, of lemon color. A delicious flavor and very tender when cooked. Being a strong grower and heavy bearer with heavy foliage, especially adapted to the interior valleys. One of the best keepers.

VAN DEMAN. (See cut) largest and best quince on the market. Flesh yellow and very fine for canning; 35 and 50 cents each.

NUT TREES

NOTE—Deciduous Fruit and Nut Trees comprise all fruit trees that drop their leaves early in the winter and remain in dormant condition until the sap starts running again in the spring. Shipping and planting season starts the first part of January, and ends generally the middle of April, according to the earliness or lateness of the season. Customers desiring early shipment should place their order early, as all orders are filled in rotation as received.

ALMONDS

Prices: 4 to 6 ft. 50 cents each; $4.50 per 10.

I. X. L. Tree a rapid, sturdy, rather upright grower, with large leaves. Nuts large, easily shelled, no bleaching or machine necessary. Soft shell.

JORDAN. The largest, and one of the sweetest and best flavored almonds in existence. The kernels are long, plump and thin-skinned. Introduced from Spain.

NE PLUS ULTRA. Tree a rapid grower, leaves large, heavy and regular bearer. Nuts large. Soft shell, hulls free. Middle of March.

NONPAREIL. Of a weeping style of growth; small foliage; a heavy and regular bearer, with very thin shell, of the paper shell type. Ripens early and can be gathered before other varieties are ready.

CHESTNUTS

SPANISH, ITALIAN and AMERICAN. Large nuts, sweet and of good quality. Bears early and is very prolific. Price three to four feet 50 cents each; four to six feet 75 cents each, six to eight feet, $1.25 each.

PECANS

Price of grafted trees, three to four feet, $2.50 each

FROTSCHER. One of the best of the grafted sorts. Tree of strong, upright growth; meat of finest quality, easily removed from shell; nuts large; shells soft and thin.

STUART. Good flavor, nuts large—about two inches long by three-quarters of an inch diameter; shell thin, quality good, and heavy bearer.

GRAFTED (OR BUDDED) WALNUTS

WALNUTS

COMMON BLACK. A robust tree, beautiful foliage, dense spreading top; wood very durable. Hard shell, kernel sweet. $1.00 each.

GRAFTED OR BUDDED WALNUTS ON BLACK ROOT

FRANQUETTE. This variety is native of France, but recently introduced here. It has proven to be one of the best. Blooms late, after danger of frost is past. Very hardy and an abundant bearer. Nut very large, elongated oval shape, with heavy, well sealed shell. Kernel sweet and rich. Fine for market variety. Price four to six feet $1.25, six to eight feet $1.75.

Germain **PLACENTIA PERFECTION.** The favorite soft shell walnut in Southern California. Nut is large and of high quality. The tree is strong and vigorous and begins to bear young. Four to six feet $1.25 each, six to eight feet $1.75.

SANTA BARBARA SOFT SHELL. Nuts are large with thin shell, kernels white and sweet. Prolific bearer. Fine for Southern California; $1.00 and $1.50 each.

Seedling trees 3 to 4 ft., 35 cents each; $3.25 per 10
" " 4 to 6 ft., 50 cents each; $4.50 per 10
" " 7 to 8 ft., 75 cents each, $7.00 per 10

GRAPES

AMERICAN VARIETIES

Prices 10 cents each, $1.00 per dozen, except where otherwise noted.

The family of Grapes grown throughout the Eastern and Middle-West States. They are particularly adapted for covering arbors, being good climbers and strong growers. These varieties may be planted in sections where the extreme cold of winter would make it unsafe to use the Foreign Grapes.

CAMPBELL'S EARLY. Blackish purple, large, early and productive. A fine new grape. Flesh firm and tender, almost seedless. A good grower with healthy foliage. Fruit hangs on vines sound and perfect for more than ten weeks after ripening and does not crack. As a good keeper and shipper it is believed to be unequaled by any other grape. More Campbell's Early are being planted in the east then any other variety 20 cents each, $2.00 per dozen.

CONCORD. One of the most popular and well known of the native grapes. Early, color black, large, both of clusters and grapes. Flesh juicy, buttery and very sweet. Exceptionally well adapted to arbors. A vigorous grower, healthy and productive.

DELAWARE. A small red grape of fine quality. Bunches are small and compact, sweet and sugary. An abundant bearer.

MOORE'S DIAMOND. A very desirable new white grape. Bunches large, berry white with yellow tinge, when fully ripe. Flesh juicy, almost free from pulp, very few seeds

Early. Resembles Concord in quality, but more pulp; ripens several days earlier.

NIAGARA. One of the best white grapes in cultivation. A leading market variety and much used for arbors.

PIERCE (Isabella Regia). A sport of the Isabella. Berries and leaves are very large size, and when ripe the fruit is exceptionally sweet. For size and quality it is one of the very best of the American varieties. Berries bluish black. A fine market variety, bringing good prices and always scarce. Grown as the California Concord in the Los Angeles region. 15 cents each, $1.50 per dozen.

WORDEN. Black and of large size. Said to be a seedling of the Concord, which it greatly resembles. Ripens a few days earlier than the Concord, and is of superior flavor. Berries larger than Concord, bunch large and compact.

FOREIGN VARIETIES

Prices 10 cents each, $1.00 per dozen

Foreign Grapes are very widely distributed, and heavily grown in California; in fact, the industry is one of the most important in the State. No home garden is complete without a few choice varieties for family use.

The varieties listed below are among the very best and will give entire satisfaction.

BLACK CORNICHON. Black, late, fine for shipping or market agreeable flavor. Bunches very large, but loose. Desirable on account of its attractive appearance, curious shape, excellent shipping qualities and late ripening.

BLACK HAMBURG. One of the best table grapes. Bunches very large, berries large, round, black when fully ripe. Flesh sweet and juicy. Very heavy bearer.

BLACK MALVOISE. Vine a strong grower. Berries large, oblong, reddish black; flesh juicy, flavor neutral; bunches large, rather loose, an immense bearer. A fine table as well as wine grape.

BLACK PRINCE. Bunches long, tapering; berries juicy and sweet. A very desirable table grape.

EMPEROR. Vine vigorous and heavy bearer; berries oblong, rose color; a splendid late variety for the market. A favorite variety on account of its lateness and good keeping qualities.

MALAGA. Immensely productive; berries very large, large bunches, yellowish green. One of the best shipping grapes, commanding a good price on the eastern markets

MISSION. The first grape grown in California. Vine a strong grower. Bunches loose; berries medium size, round, purple-black, exceedingly sweet, juicy and delicious. Skin thin. Very popular.

MUSCAT OF ALEXANDRIA. Yellowish green, skin thick, extensively planted for raisins. Vine rather short bushy grower, more of a bush than vine; berry oblong, light yellow, transparent. One of the richest flavored of all grapes.

ROSE OF PERU. Vine a strong grower; bunches very large rather loose; berry round, large, black, with firm and crackling flesh. Ripens rather late. A popular and fine market variety

SULTANA. Large bunches, berries small, amber colored, seedless; a fine bearer and excellent for raisins. Grows in sandy soil. An immense bearer, producing very large crops.

THOMPSON'S SEEDLESS. A prolific bearer; large bunches berries greenish yellow, seedless, larger than the Sultana makes a raisin of fine quality and valuable for table use.

TOKAY. Berries large, skin thick, pale red, flesh firm and sweet; excellent for table. The leading shipping grape of the state.

ORNAMENTAL AND LANDSCAPE GARDENING

Realizing the difficulties our patrons often find in obtaining the services of skilled gardeners to plan and carry out the planting of new gardens or the remodeling of existing ones, we have given a great deal of attention to this branch of our business during the past season. We have now an organization for carrying out landscape work that is second to none. We invite our patrons to confer with us when they have anything of this kind in view and we will be glad to give them every assistance. At our nurseries on the Whittier road we are growing stocks of all kinds of ornamental and flowering plants, trees and shrubs and we ask our patrons to visit them with the assurance that the time so spent will prove of interest and profit. See the plants growing and select what you wish or let our experts advise you. The trip from the city is only a short one and we will be glad to take out one or a party at any time. Get acquainted with our stock this way and our methods of doing business. You will not be disappointed in either.

GROUNDS OF L. M. ARMSTRONGS HOME AT SUNNYSLOPE. A SATISFIED CUSTOMER

We prefer in all landscape work to charge for the exact time worked by our men and the material used. In this way our patrons may change anything that seems to them undesirable while the work is in progress. But if this does not meet your wishes and a specific contract is desired, we shall be pleased to submit one. What is more important—we are prepared to guarantee satisfaction. In the making of new lawns and the improvement of old ones we have been particularly successful, owing to the skilled labor provided and the high quality of our own tested grass seeds, clover seeds and fertilizers used. Places that have been run down or that were wrongly planted at first can be improved often at a small cost and we are always willing to advise upon these subjects on payment of out-of-pocket expenses only, which are refunded if we carry out the work. We take great pride and pleasure in this branch of our business and our patrons will be quite safe in allowing us to go ahead with their work.

Our catalogue hereunder is not a complete list of all the stock we grow and deal in, but we think you will find it fairly representative and invite inquiries for any stock not here listed.

ORNAMENTAL EVERGREEN TREES

ACACIA

We are indebted to the continent of Australia for many beautiful and useful trees and shrubs—in fact for the majority of those we grow. But had Australia given us nothing but the splendid Acacias or Wattles as our Australian cousins call them, she would have laid us under great obligation. Here in the favored Southwest these magnificent trees are perfectly at home and perfectly hardy, while in colder parts of the country they are thought so much of that large greenhouses and conservatories are built to take care of them. But, of course, in the limited space of even the finest canopy of glass ever built there can be nothing like the magnificent displays made under the canopy of our southern skies and sunshine. There is no garden that would not be improved by the addition of a few, at least, of these splendid trees.

A. BAILEYANA is a rapid growing species with greyish green feathery foliage and golden-yellow flowers, so freely produced that they cover the whole tree. It is one of the finest of the Acacias, especially suitable for planting near the house, owing to its neat habit; 30 cents to $1.50.

A. CULTRIFORMIS is known as the knife leaved Acacia, owing to the peculiar formation of the leaves. These have also a very distinct coloring. The flowers occur in crowded heads, bright yellow; 75 cents.

A. DEALBATA is one of the showiest and best of the Acacias, having feathery pubescent foliage and flowers like small, golden fluffy balls. A lovely plant, also known as the Silver Wattle; 50 cents to $1.00.

A. FLORIBUNDA. A quick growing, handsome Acacia, fine for making a display in a short time. Has pretty, soft green foliage and light canary yellow flowers; 50 cents.

A. LATIFOLIA. A free growing, free flowering, large leaved plant, very popular; 50 cents.

A. LOPHANTHA. The correct name of this is Albizzia lophantha, but it is so well known as an Acacia that we have left it under the popular name. It is perhaps the quickest growing o fall and highly recommended; 50 cents to $1.00.

A. MOLLISSIMA. A pretty tree, with soft green feathery foliage and bright yellow flowers. An early bloomer; 35-50 cents.

A. MELANOXYLON (Black Acacia). This fine Acacia has been very freely planted as a street tree, for which it is quite suitable, as it is a clean grower and has hard foliage that sheds dust. It grows rapidly and is greatly in demand. We always carry large stocks of it; 35 cents to $1.00. Write for special prices in large quantities.

A. PYCANTHA. A large leaved species with long spikes of flowers produced from the leaf axils. Known also as the Golden Wattle; 50 cents to $1.00.

CAMPHOR TREE

CAMPHORA OFFICINALIS. We have no hesitation Germain in recommending this as one of the finest parkway or street trees in existence. Those who are familiar with the specimens growing around Los Angeles, Pasadena, and other towns, cannot fail to have noticed their clean, bright appearance, or to have admired the pretty light green of the foliage, tinted with a lovely shade of red in early spring. Insects seldom, if ever, bother it, and the root system is of a nature that never obtrudes itself or tears up cement work near the trees; 35-50 cts. Larger trees at proportionately higher prices.

CERATONIA (CAROB)

ST. JOHN'S BREAD. This is a notable tree often spoken of by ancient historians. It was probably the "Locust" spoken of in the Bible, and is a most attractive shade tree, producing edible pods of a peculiar horn-like appearance. It has shining deep green leaves, is often used as a street tree; 50c. to $1.50 aech.

CASUARINA STRICTA

BEEF-WOOD or SHE-OAK. A tall growing tree in habit a good deal like a Conifer. It grows very rapidly and in soils where other trees fail, such as in marshy or alkaline lands. It is not at all fastidious as to temperature, and thrives in hot interior valleys; 50 cents to $1.00.

EUCALYPTUS

For descriptions of the various Eucalypti, see page 78.

We grow large quantities of small plants in flats and pots and some of the varieties in larger pots and boxes. As a rule, however, we advise planters to use the small stock, as it is much easier to handle, and the trees are very rapid growers. Prices vary a little, according to size and variety and we will be pleased to quote at any time on application. The commoner species we can always supply at $2.00 per hundred, $15.00 per thousand.

FICIFOLIA. The scarlet flowering gum. An ornamental variety of dwarfish habit, large leaves, producing great heads of brilliant scarlet blooms. Its blooming season is late spring and summer. Potted plants 75 cents to $2.50 each.

EVERGREEN ELM

A most ornamental tree of drooping or pendulous habit. It thrives well in localities where the ordinary deciduous elm is not satisfactory and is a decided acquisition to our list of Evergreen trees. Stock is likely to be scarce for a few years. 75 cents to $2.00.

FICUS ELASTICA

While eastern readers only know the rubber plants as small, ornamental subjects for the house or moderately large conservatory plants, in the Southwest they grow into stately trees just as they do in their native habitat. We have mentioned F. elastica as being the best known one, but there are several others equally good, either for small ornamental plants or as magnificent trees when they reach a suitable age. We carry plants of all sizes at 50 cents to $10.00.

FICUS MACROPHILLA (Moreton Bay Fig). Native of Australia, Hardier than the above and with somewhat smaller leaves. Valuable as a decorative plant. Much Planted in southern and middle California where it forms a fine, compact tree. In Australia it is regarded as the grandest of all decorative and avenue trees. $1.00 to $5.00 each.

GREVILLEA ROBUSTA

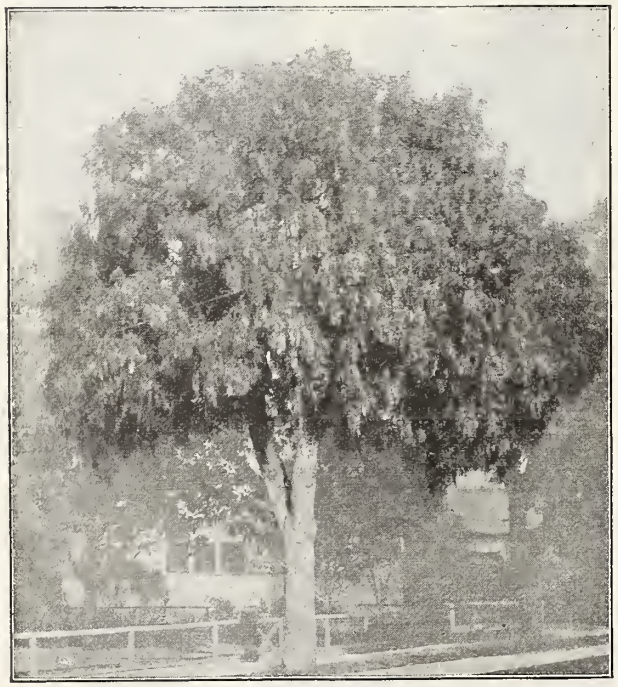
SILK OAK. This is another tree that may be used from the smallest state up. Little seedlings are fine for mixing with ferns in fern dishes and when they become too large for this purpose they may be planted on the lawn or in the garden. It makes a most graceful tree, owing to its fern-like leaves, and during its flowering season it is covered with great billowy masses of golden yellow flowers. When of sufficient age to take care of itself it roots deeply and requires only the ordinary rainfall of the Southwest to keep it growing, though naturally the growth is more free if plenty of water is given. We have small plants of this as low as 15 cents each, larger 35-50 cents.

JACARANDA

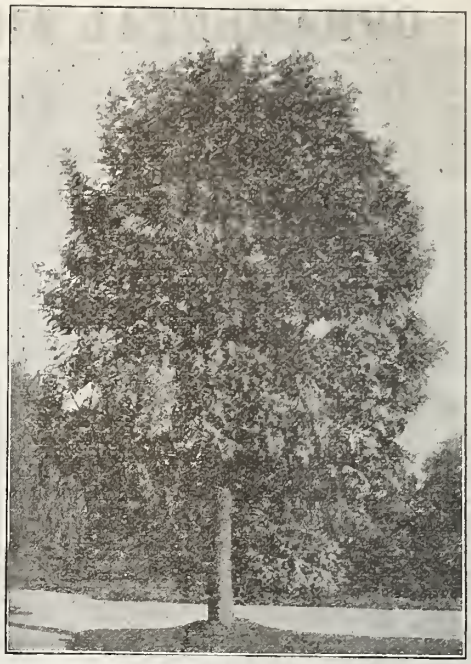
J. MIMOSIFOLIA. Being a native of Brazil it is unwise to plant this Jacaranda in cold locations, in the more favored sections there is not a more beautiful tree in cultivation. For years it has been grown in the conservatories of the East, and in Europe, but only in this glorious Southland is it seen in its full beauty outdoors. Well grown specimens produce great fern-like leaves in profusion and with the immense spikes of blue flowers make it a thing of beauty. It should be freely planted wherever the conditions are favorable; 75 cents to $2.50.

PARKINSONIA

P. ACULEATA. This is known as the Jerusalem Thorn and is a very beautiful tree when mature. The habit is semi-drooping and the long, leafy, heath-like stems are very effective, especially when covered with the golden yellow flowers. A native of Central America, it likes a warm, sunny position; 50 cents.



PEPPER TREE



GREVILLEA ROBUSTA

LIVE OAK

QUERCUS AGRIFOLIA. The California live oak is a tree that is justly celebrated the world over for it is one of Nature's greatest successes. Words cannot describe the beauty of the trees. It will be noted that the live oak usually grows where there is water, if not surface water at least not far down, and this suggests its treatment under artificial conditions. We do not water our trees heavily in the nursery, as they do not transplant so readily if they make a very strong growth. But we allow enough to keep them growing freely and yet make a good "wig" of roots, owing to their having to look for water. They have been several times transplanted and are in perfect shape for lifting. The larger trees are growing in boxes and consequently can be moved with safety at any time of the year. Balled trees, 50 cents to $1.00; boxed $2.50 up.

MAGNOLIA

M. GRANDIFLORA. One of the most popular trees in Southern California and southern states generally. It grows rapidly and attains a large size, its fine glossy green leaves being attractive at all times of the year, while its magnificent flowers —pure white and often nine inches across—are among the most striking in existence. Perfectly hardy everywhere, as it is a native of the northern states; 50 cents to $5.00.

PEPPER TREE

SCHINUS MOLLE. No one thinks of California without thinking of the beautiful Pepper Trees brought to this country by the Spanish missionaries and planted around the missions. It has been so freely propagated that everyone knows and admires it here, while carloads of the showy foliage and berries are shipped east to decorate at Christmas time the homes of rich and poor. We carry large stocks of it in all sizes; 20 cents to 50 cents each.

STERCULIA

S. DIVERSIFOLIA. The Australian bottle tree, owing to its formal appearance and ability to stand drought, is becoming very popular, as a street or parking tree. It is one of the easiest of trees to transplant if not kept about too long, for the swollen base seems to perform the function of a bulb and holds moisture and sustenance which carries the tree over the removal. As the name implies, the foliage is diversified in shape, but the habit is the same in all. We have a few small trees at 50 cents each, larger ones $1.50 to $2.00.

VEGETABLE PLANTS

Vegetable plants already started for the home gardener helps get the garden under way far earlier.

We make a specialty of growing all the leading varieties of vegetables such as cabbage, cauliflower, kale, parsley, celery, swiss chard, brussells sprouts, sweet potatoes, peppers, tomatoes, egg plant, etc., and these are fine big healthy plants all ready for the gardener to set out. For quantity prices write. For detail listing see page 83.

ORNAMENTAL DECIDUOUS TREES

Not every deciduous tree does well in this section, but many o and those named below are among the best of their kind.

RIZONA ASH. A quick grower and suitable for arid regions. We hold large stocks of this excellent tree in all sizes; 15 cents, 50 cents to $1.00.

ATALPA. Splendid shade tree with large foliage and producing immense spikes of showy white flowers; 75 cents to $1.50.

OTTONWOOD. A quick growing tree especially suitable for exposed positions; 50 cents to $1.00.

LM. We carry a few elms of various sorts, but they are not always a success in the South and West; 50 cents to $1.00.

IAPLE. Not as well known in the South and West as in eastern sections. We handle several varieties, including the sugar Maple, silver and Norway; 50 cents to $1.00.

IULBERRY. The Russian Mulberry is a tall growing, vigorous tree that soon makes a fine show. It should be somewhat closely pruned the first year after planting; 50 cents to $1.00.

IULBERRY TEAS' WEEPING. A graceful lawn tree which may also be used for training over arbors or garden seats; $1 and $2.50.

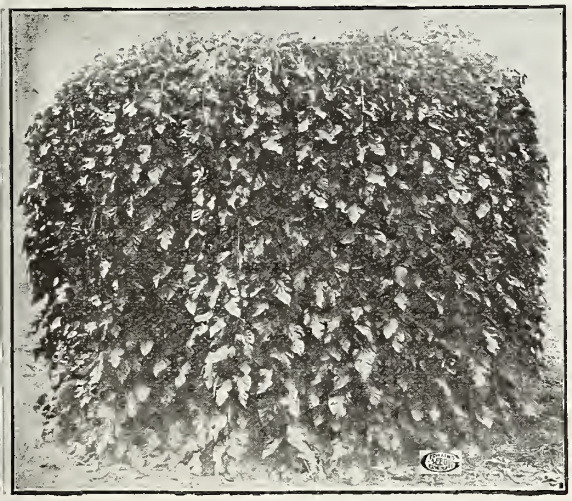
OPLAR, CAROLINA. A tall grower with pretty shining green foliage; 50 cents to $1.00.

YCAMORE. Our native sycamore is one of the most beautiful trees in existence and so well suited to our climate that it ought to be universally used. It is fine in a young state, but as it grows older and the stems mature it is one of the most beautiful objects in nature; 50 cents to $1.50.

MBRELLA TREE. The Texas Umbrella Tree forms a symmetrical, round head and bears pretty green cut fern-like foliage. It has become very popular in arid and semi-arid sections where other varieties do not thrive; 50 cents to $1.00. We have a few extra sized trees at $1.50.

ILLOWS. For planting near ornamental water the Weeping Willow is especially suitable and also for single specimens on lawns. We grow a few plants of the other kinds, but they are not generally very popular; 50 cents to $1.00.

ORNAMENTAL SHRUBS



TEAS' WEEPING MULBERRY

BELIA RUPESTRIS. There are few things in the whole range of flowering shrubs so pretty as this. The arching stems are covered closely with deep green leaves which show up the pure white flowers to perfection. We recommend it highly; 25 to 50 cents.

BUTILON. The Abutilon is a well known, free flowering shrub that grows well in light, sandy soil and an open situation. In dense shade it grows well, but does not flower freely. We have the white flowered form, also the red and yellow, and that bearing variegated foliage; 25 cents each.

AMBOOS. We grow many of the more popular kinds for shrubberies and screens. Prices 50 cents to $5.00.

UDDELIA VEITCHII. A comparatively new variety from China with long spikes of delicately colored lilac flowers. These are produced throughout the greater portion of the year. A plant of loose-growing, graceful effect. Price 35 cents to 75 cents.

BERBERIS

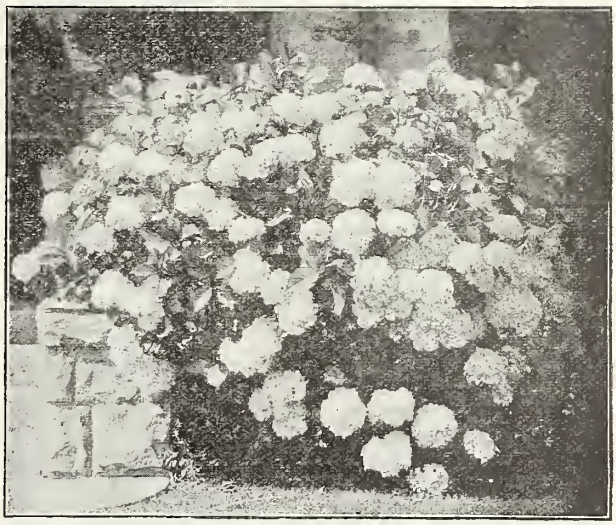
AQUIFOLIUM (Mahonia). A splendid shrub having shining evergreen leaves with a metallic looking luster quite distinct from anything else in cultivation; 50 cents to $1.00.

B. DARWINI. A dwarf grower with small spiny leaves and orange-yellow flowers; 25-50 cents.

B. PURPUREA. The purple leaved barberry, a showy and excellent dwarf shrub. 25 and 50 cents.

B. ILICIFOLIA. The holly leaved barberry, a distinct plant with leaves resembling those of the English holly. 25 and 50 cts.

Germain **B. THUNBERGI.** There is no more widely grown or valuable shrub in the East than Thunberg's barberry. It is of dwarf, close habit, covered with small spines and leaves all summer and in winter a mass of red berries. We cannot speak too highly of this charming plant, which is always delightful summer and winter; 10 cents to $1.00.



HYDRANGEA HORTENSIS

BAY TREES. See special list page 108.

BOXWOOD. See special list page 108.

CAMELLIA JAPONICA. Handsome shrubs with shining, deep green leaves and rosette-shaped flowers of various colors, the best being red, pink, white and striped or variegated. The plants cannot stand the full sun in southern localities, but in a fairly shaded place thrive well; $1.50 to $2.50 each.

CASSIA CORYMBOSA. Free growing, with pretty green cut foliage and golden yellow flowers; 50 cents.

C. ARTEMESIOIDES. Grey-green foliage cut like that of a Hakea or Cypress. A choice and beautiful thing; 50 cents.

CESTRUM AURANTIACUM. A showy flowering shrub producing panicles of orange-yellow flowers very freely; 35 to 50 cents.

C. PARQUI (Chili or Night Flowering Jasmine). Pure white, fragrant flowers freely produced at the ends of the branches; 50 cents.

CHOISYA TERNATA. The Mexican orange flower, as this plant is popularly known, is a beautiful evergreen with trifoliate, deep green leaves and white citron-scented flowers. It is a compact growing, neat appearing shrub and we recommend it strongly. 75 cents to $1.50.

Germain **COPROSMA BAUERI.** This shrub has the most glossy-green foliage of anything we know and it is especially well suited for seaside places, as it thrives most wonderfully under the influence of salt sea breezes, when so many of our best shrubs fail. We recommend it very highly; 25 cents to 75 cents.

C. BAUERI VARIEGATA. A golden variegated form of the above which forms a delightful companion to it. It is easily grown but difficult to propagate; 50 cents to $1.00.

Germain **CRAETEGUS PYRACANTHA** (Fire Thorn). Highly recommended. A splendid, free growing shrub that bears in fall great masses of orange-red berries; 75 cents to $1.50.

Germain **C. CRENULATA.** Brighter in the berries than the last named, a magnificent shrub; 75 cents to $1.50.

CREPE MYRTLE. Late flowering splendid shrubs that are in bloom after almost all other flowering shrubs are over. They come in white, red and pink and all are exquisite when in flower. 35 cents to $1.50 each.

DAPHNE. D. Odorum is a sweet scented shrub thriving well in some locations. Where it does best is on a peaty, black soil in partial shade; $1.50 each.

Germain **DENDROMECON RIGIDUM** (Tree Poppy). A native of California and a remarkably beautiful shrub. It grows naturally on dry, sandy soil, often on exposed, sunny hillsides, consequently it must be given light soil and an open sunny spot in the garden. It produces in early summer great masses of golden-yellow flowers. Our plants must not be confused with the cheap stock dug from the wilds by collectors. They are nursery grown and will stand removal without check; $1.00 to $1.50.

DIOSMA (Breath of Heaven). Pretty heath-like plant with fragrant foliage. Planted near the home it is delightful after a shower or after hosing down; 35 cents.

Germain **ERICA MELANTHERA.** The only heath we grow in large quantities. It is, we believe, the most beautiful of moderate height shrubs for Southern California, and similar sections, where the atmosphere is too dry for the majority of the heathers. Its beauty baffles description and our stock of it is never large enough to take care of all orders, so kindly order as early as possible; 75 cents to $2.00.

ESCALLONIA. Where they thrive the Escallonias are among our finest shrubs. We have both red and white forms; 50 cents to $2.00.

Germain **EUGENIA MYRTIFOLIA.** A gem in every way and the finest of all the Myrtle family. It is beautiful in the smallest stages, but with age it becomes superb, the lovely tints of the young foliage captivating everyone; 35 cents to $1.00. Large specimens, prices quoted on application.

EUONYMUS JAPONICUS. A free growing, useful evergreen shrub that comes in several varieties, such as the green, golden and silver variegated, and the white margined. It is known as the spindle tree and is of the easiest culture; 25 cents to 50 cents.

EUONYMUS PULCHELLA. A small growing variety, fine for dwarf hedges, a good deal like the dwarf boxwood but easier to handle; 5 cents to 20 cents.

FLOWERING CRAB. The beauty of the Crab Apple has long been known, but the newer kinds are even more beautiful than the old type. Bechtel's double flowering is especially attractive, with its delicate, rosy-pink blossoms so freely produced; 50-75 cents.

FLOWERING PEACH. We have several varieties of the flowering peach that are very attractive. The double white and double red are especially good; 50 cents.

FLOWERING QUINCE. A beautiful shrub bearing bright scarlet flowers in great profusion, commonly known as "Japonica"; 40 cents.

GENISTA CANARIENSIS. Pretty golden-yellow flowers produced on feathery branches; 25 and 50 cents.

Germain **GREVILLEA THIELMANNIANA.** Small flowering but a beautiful shrub thriving well in dry, arid districts but attaining much finer proportions where conditions are better. We advise everyone to plant this lovely shrub, for it is nearly always in bloom and even when not in flower its graceful feathery foliage is most attractive; 50 and 75 cents.

HABROTHAMNUS (Coral Flower). Bright red flowers produced on tall, slender stems. A showy, easily grown, free flowering shrub; 35 cents to 50 cents each.

HETEROMELES ARBUTIFOLIA (California Holly). This splendid native shrub is widely distributed over the foothills and lower mountain ranges of California and has Arbutus-like leaves and white flowers followed in winter by the rich scarlet berries so well known at Christmas time as "Holly berry"; 25 to 50 cents.

HIBISCUS. Well known, free flowering, showy subjects for lawn planting. We raise large numbers of plants annually and for this reason offer them in separate colors at the low price of 35 cents to 50 cents each.

HOLLY. The English holly cannot be said to be always a success, but that is often owing to ill considered treatment. Given plenty of water and good soil it will thrive in a partially shaded position and its deep green foliage and bright red berries endear it to all. Our plants are mostly grown in tubs for porch decoration and after being used for this may, with advantage, be planted in the open ground. Prices run from $1.50 to $10.00. We also hold a fine stock of the variegated leaved forms at similar prices.

HYDRANGEA. One of the most popular shrubs in existence and grown practically all over the world. The older varieties, such as Otaksa and Hortensis produce great heads of pink or blue flowers in profusion, almost hiding the pretty green foliage, which is so attractive when the plants are out of bloom. These we sell at 25 cents to 50 cents each, but we have also in stock the new French hybrids which are greatly superior in the gradations of coloring and dwarf floriferous habit; 50 cents to $1.00.

HYPERICUM. Pretty free flowering shrubs with golden-yellow flowers. We grow several varieties, including the well known H. Moserianum, one of the finest of all; 20 cents to $1.00.

IOCHROMA GRANDIFLORUM. A shrub that is much neglected for it is not only a splendid, showy species, but it is also a free grower and we know of nothing that will so cheaply and effectively cover or hide unsightly objects or make a grander display. We recommend it highly; 50 cents.

LANTANAS

LANTANA. The dwarf Lantanas are free flowering, showy plants fine for hedges or lawn shrubs. They come in a variety of colors. We have the dwarf kinds so suitable for edging to walks or flower borders. The Creeping Lantana is a prostrate growing variety with delicate pink flowers making an unbroken carpet of flowers from early spring to fall.

We have a splendid collection of the latest varieties; prices, $1.00 per dozen in pots.

DWARF LANTANAS—
Alba Perfecta,—White,
Craigi,—Orange yellow,
Golden Ball,—Yellow,
Tethys,—Sulphur yellow,
Pasadena,—Pink.

TALL LANTANAS—
Jeanne L. Ord,—Bronze yellow,
Mrs. Schmidt,—Orange and red,
Sunset,—Cerise to yellow.

CREEPING LANTANA—
Delicatisima,—Lavender.

FABIANA IMBRICATA. Native of South America. Grows to the height of three feet. A very erect growing shrub with heath-like foliage—thriving in almost any soil. It is crowned in the summer with an abundance of white, funnel-shaped flowers. 35 cents to $1.50 each.

LAURUS CERASUS (English Laurel). Contrary to the usual belief, this noble shrub does finely in Southern California provided it has a good soil and plenty of water. Its great glossy-green leaves shed dust easily, making it fine for town or roadside planting. We can supply large boxed specimens at from $5.00 to $10.00 each. Young plants 50 to 75 cents.

LAURUSTINUS. Well known and free flowering evergreen shrub, highly recommended for lawn; 25 cents to $1.00.

LEONTIS LEONOREUS. A beautiful shrub with large clusters of orange yellow flowers. Suitable for dry locations. 35 cents to $1.00.

LEMON VERBENA (Aloysia Citriodora). A well known, sweetly-scented shrub, rather straggling in growth but always popular 25—50 cents.

LEPTOSPERMUM LAEVIGATUM. The best of a very numerous family for planting in shrubberies or on lawns. A loose growing, beautiful shrub with small green foliage and extremely free blooming; 35 cents to $1.00 each.

LILAC OR SYRINGA

LILAC (SYRINGA)

S. PERSICA. The small-leaved species that thrives so well in warm sections. There are two varieties, white and purple; 35 and 50 cents.

S. VULGARIS. The common lilac especially well suited to cold locations where frosts occur. One of the finest shrubs for cutting great masses of fragrant flowers in early summer; white or purple; 35 and 50 cents.

NAMED VARIETIES. We have all the new and choice French lilacs, such as are forced and grown for the high class florists' business. A list sent on application. Price $1.00 each.

LINUM FLAVUM. One of our best winter flowering shrubs producing golden-yellow blossoms in the greatest profusion. It is a quick grower and always in good demand; 35 cents to 50 cents.

MALVAVISCUS ARBOREUS (also known as Achania Malvaviscus). One of the brightest flowering shrubs, the flowers being like an abutilon in shape but bright scarlet in color. It has dark deep green leaves and makes a neat, attractive plant. It is one of our best species for a dry location, for when well established it thrives without irrigation and with only a very moderate rainfall; 50 cents to $1.00.

MYRTLE. Pretty, small-leaved shrubs much used for cutting for wedding bouquets; 25 cents.

NANDINA DOMESTICA. A most beautiful shrub bearing large compound green leaves in summer, these turning in fall to a reddish bronze or coppery red. It bears numerous red berries in fall; $1.00 to $2.00.

LEANDER. The Oleander comes in a variety of colors, the flowers being very fragrant. It does best in warm places and the roots must never be allowed to lack water; 50 cents to $1.50.

HILODENDRON. A tropical foliage plant with enormous dark green leaves deeply lobed and notched at the edges with perforated holes of irregular shape in the interior. The leaves attain a width of two feet by three and a half in length. The plant is of climbing habit and sends out long aerial roots at intervals along the stems. These soon reach the ground, take root in the soil, and furnish the plant with needed moisture. There is nothing more decorative for house culture. Also can be used for outside planting, especially where there is plenty of shade and moisture. $2.50 to $10.00 each.

PITTOSPORUM

. CRASSIFOLIUM. A close growing evergreen with small, bright green leaves, fine for small gardens; 25 to 50 cents.

. NIGRICANS. Black stemmed with intensely deep green leaves, small but very shining and polished in appearance. One of the most attractive small growers; 25 and 50 cents.

. TOBIRA. Quite different in habit from all other pittosporums, being more upright and with longer foliage. A fine town plant; 50 cents.

POINSETTIA

TOBIRA VARIEGATA. A prettily variegated form of the last ıamed, and a shrub that should be in all town and country ardens. A most attractive lawn shrub, always bright and ıretty; 50 cents.

UNDULATUM. Probably the best known of all the pittosporıms and a splendid lawn or parkway shrub. Ithaswavy, deep reen foliage and white flowers followed by orange-yellow ıerries. This, with time, attains the dimensions of a medium ized tree and we strongly recommend it; 35 cents to $1.00.

UMBAGO CAPENSIS. The lovely sky-blue of this charming hrub is unsurpassed by that of anything else in cultivation. t should be grown everywhere, and is so accommodating in rowth that it can be trained either as a vine or shrub; 25 ınd 50 cents.

CAPENSIS ALBA. A pure white flowering form of the last ıamed, similar in every other way; 25 and 50 cents.

INSETTIA. Well known Christmas flowering shrub with its reat glowing crimson bracts. We grow only the large, riliiantly colored type; 50 cents and 75 cents each.

MEGRANATE. The flowering pomegranates, red and white, nake pretty plants for dwarf hedges or lawn shrubs; 40 cents.

IVET. The green varieties of Privet are excellent for hedges, ıut the golden variegated kind is much superior. Plants in lats 100 to a flat, $4.00 per flat. In pots 10 cents each.

PRUNIS PISSARDI. One of the most ornamental of all foliage plants. The leaves are deep copper-bronze in color fully as rich a shade as that noted in a purple beech, with the advantage of being a more rapid grower. 75 cents to $1.50.

SPARTIUM JUNCUM (Spanish Broom). Stiff rush-like foliage and beautiful golden-yellow orchid-like flowers. A popular shrub and justly so for it is one of the best; 75 cents.

SPIREA

S. ANTHONY WATERER. A beautiful red flowering shrub in bloom nearly all the year round. Thrives anywhere and in any class of soil; 50 cents.

S. REEVESIANA (Bridal Wreath). Pure white flowers so freely produced that the bloom spikes almost hide the foliage, making an entire sheet of white; 35 and 50 cents.

S. VAN HOUTEI. Larger than the last named but equally free flowering and one of the best white flowering shrubs in cultivation; 50 and 75 cents.

Germain **STREPTOSOLON JAMESONI.** If there is such a thing as a perpetual flowering shrub then this showy favorite is it. We have known one plant of it for four years and never yet saw it out of bloom. The flowers occur in loose corymbs and are orange, scarlet and yellow, a most effective combination of coloring. It is a native of dry sections in South Africa and consequently does well in semi-arid places, though it also thrives under more genial conditions, of course. It should be in every garden. Our plants are grown in pots exclusively, as it does not transplant readily when balled; 35 cents to 50 cents.

TAMARIX. Graceful shrub with feathery foliage and plumes of rosy pink flowers. Does well by the seaside when many others fail; 50 cents.

Germain **VERONICA.** We grow immense quantities of this splendid evergreen shrub. It is of a neat habit of growth and makes a fine bush which in spring and early summer is covered with graceful blossoms of purple or wine-crimson according to the variety. We recommend this very highly; 25 and 35 cents.

VIBURNUM LUCIDUM. Splendid evergreen shrub similar to the Laurustinus but with more attractive foliage; 75 cents.

WEIGELA. One of the showiest and best of flowering shrubs. Hardy and a persistent grower, thriving anywhere. All colors, 35 to 50 cents.

Germain **CEANOTHUS THYRSIFLORUS.** Here is a distinct and beautiful shrub that is not nearly as much grown as it will be. The growth is rapid yet neat, the pretty foliage serrated and deep, glossy green. We recommend this most highly; 30 cents to 75 cents.

CONIFERS

Conifers are best grown in groups or single specimens where they have ample room to show their fine proportions. Crowded closely together they form a mass without any individual character. The lower branches should have especial care for if once these are lost they can never be regained and the beauty of the tree is spoiled. The same applies to the leader or point fo the tree. It is sometimes broken off in the early stage by birds alighting on it and when this occurs the resulting shoot should be carefully trained in its place.

ARAUCARIA

A. BIDWILLI. Also known as the Moreton Bay pine. This makes a splendid lawn specimen and in our landscape work we have frequently transplanted huge specimens safely. The tiers of leaves rise in a symmetrical but not stiff manner from a broad base and it is one of the most strikingly effective trees in cultivation. Small specimens are attractive as pot plants and may be planted out later when too large for porch or veranda decoration. Plants in pots $1.50 to $5.00. Larger specimens $15.00 to $75.00.

A. EXCELSA (Norfolk Island Pine). A splendid pot plant in the younger stages and in larger state a very fine lawn specimen. While the common excelsa is good, we recommend the plumosa varieties as far better for every purpose, as they make much better furnished plants and are in every way more attractive; 75 cents to $5.00.

A. IMBRICATA (Monkey's Puzzle). A curious looking plant that does not attain its best proportions here. The leaves are very prickly and stand out almost like a cactus hence the popular name. Prices on application.

ARBOR VITAE (See Thuya).

CEDRUS

C. ATLANTICA. The typical C. Atlantica has glaucous, or grey-green foliage that contrasts well with the deeper green of other Conifers. It makes a majestic pyramidal tree and is one of the hardiest of all; $2.00—$4.00 each.

Germain **C. DEODARA.** If we were ever asked for the finest Conifer for California and other dry sections, we would unhesitatingly recommend this noble cedar. The Deodar has also been called the Indian or Himalayan cedar and is without question one of the most magnificent trees in cultivation. It grows rapidly and is beautiful from the smallest stage up, increasing in beauty with age. It thrives in almost any soil and is as happy in Arizona as in California or Oregon. In short we recommend it more highly than any other tree with which we are acquainted; $1.50 to $5.00.

C. LIBANI (Cedar of Lebanon). This is one of the oldest trees, historically, in the world. The trees in America have not been long enough planted to attain their full beauty and dignity

ARAUCARIA EXCELSA

but even in a smaller state it is a magnificent tree, its dark, lustrous foliage contrasting well with the lighter hues of the Deodars and others. It should be planted only where there is full room for its development; $2.00 to $4.00.

CUPRESSUS (CYPRESS)

C. ARIZONICA. An erect growing cypress with bluish-green foliage and pyramidal habit. Fine for windbreaks and thriving well in dry localities; 25 cents to $1.00.

C. GUADALUPENSIS. Very rapid growing cypress with deep glaucous green foliage pyramidal in growth and not particular as to soil; 50 cents to $1.00.

C. LAWSONIANA (Chamaecyparis). The Lawson Cypress is a tree of variable habit, the typical form growing in a neat pyramidal form and having dark green foliage. Some varieties grow erect, others drooping, but all are beautiful, hardy trees worthy a place in the most select collections; $1.00 to $2.50.

C. MACROCARPA (Monterey Cypress). A very hardy, quick growing cypress, handsome even in the smallest state. It will stand close clipping for hedge purposes or can be grown as a single specimen. Allowed to run up straight it makes an efficient windbreak and does well near the sea where other Conifers do not thrive. In flats about 100 to a flat, $2.00 per flat. In pots or balled 10 cents to $1.00.

C. PRIDE OF BOSKOOP. A selection from C. Lawsoniana, very distinct and graceful; $1.00.

C. SEMPERVIRENS (Italian Cypress). Grows naturally into a thin, columnar shape and useful for Italian gardens or for planting on lawns when it is advisable to keep the view open. The true type is as small at the bottom as the top, but there are some forms that do not keep their true shape and are inferior for this reason; 50 cents to $1.50.

JUNIPERUS (JUNIPER)

Germain **J. BERMUDIANA** (Bermuda Juniper or Pencil Cedar). This is the tree from which the wood for "cedar pencils" was formerly made and it is one of the best Conifers we know. Quick growing and handsome from the smallest stages it has always a fresh, green appearance and it thrives on practically all soils and in any situation; 75 cents to $1.00.

J. COMMUNIS. This is the common Juniper, of which there are many varieties. Prices vary with the size and variety.

J. PROSTRATA. A low growing plant useful for Japanese gardens and similar small plantings; $1.00.

LIBOCEDRUS

L. DECURRENS (Incense Cedar). A handsome native Conifer that should be more generally planted. The branches are spreading, the leaves flat or pressed in appearance and it stands hot sun well; $1.00 to $2.50.

L. DECURRENS COMPACTA. This is a dwarf growing compact type of the above. Very fine for lawn planting and small gardens. We recommend it highly. $2.50, $5.00.

PINUS (PINE)

P. CANARIENSIS (Canary Island or Blue Pine). A pretty pine with long needles. In the young state the color is blue, this color also appearing on the new growth in older branches; 25 cents to $1.50.

P. HALAPENSIS. One of the finest pines for Southern California. Medium height, spreading at the base and a fine grower. We carry a large stock of fine trees in boxes, $2.50 to $5.00. Small plants 50 cents.

P. MARITIMA. A graceful pyramidal pine with very bright green long leaves. Tall growing $1.00.

P. INSIGNIS (Radiata). This is the well known Monterey pine a rapid growing species, native of the coast ranges of California Small plants 25 cents, larger $1.00 up.

SALISBURIA

S. ADIANTIFOLIA (Gingko biloba or the Maidenhair tree). This while coming under the heading of Conifers, is totally different from all others, being deciduous or leaf shedding and not evergreen, like the majority. It is a hardy, pyramidal tree well suited for lawn planting and the foliage is like that of the coarser growing maidenhair ferns; $1.00 to $2.50.

SEQUOIA

S. GIGANTEA. The famous "Big Tree" of California. This needs no description or introduction, as it is famous the world over. Sometimes called Wellingtonia Gigantea. It is a regular tapering tree, growing in its native place from three hundred to four hundred feet high; $1.00 to $5.00.

S. SEMPERVIRENS (California Redwood). A noble tree and one that is becoming more popular yearly. The demand for this tree has been so great of recent years that we have had great difficulty in keeping up stock of it. Grown on a lawn it should be allowed to retain its lower branches when it billows out over the grass and makes a magnificent specimen. The growth in the early stages is a good deal like that of a yew, but it soon outgrows this and makes a majestic specimen. Small plants 50 cents. Larger specimens from $2.50 to $5.00.

TAXUS (YEW)

T. BACCATA (English Yew). A low branched dark green tree producing bright scarlet berries very attractive to bird life; $1.00 to $1.50.

T. HIBERNICA. We give this name as it is used to describe the Irish yew but the true botanical name of this is T. baccata fastigiata—a variety of the common or English yew. It makes a compact, upright growing tree with almost black green foliage, rather funereal looking, but useful in courts and on small lawns; $1.00 to $10.00.

THUYA (ARBORVITAE)

T. ORIENTALIS. The well known arborvitae. There are numberless varieties of this plant, from sempervirens to semperaureum, the evergreen and the evergolden. All are useful in some places and we annually sell large numbers of them. Biota aurea nana is probably the best of all—a splendid porch or decorative plant of close symmetrical habit that can be planted on the lawn when too large for this purpose. Pot and tub plants of either variety from 50 cents to $2.50; balled plants 50 cents to $5.00.

T. ROSEDALE HYBRID. A compact grower with foliage like that of the common Juniper or Cypress, and a neat plant for the lawn or porch; 50 cents to $1.50.

LAWSON CYPRESS

PALMS AND CYCADS

HAMEROPS EXCELSA (Hardy Fan Palm). Commonly known as Japanese Fan Palm; very beautiful and especially attractive for its odd, hairy trunk. One of the best street palms and largely planted for that purpose; 50 cents each; 12 to 18 inches high (fine decorative plants), $1.00 to $1.50 each; in large Japanese tubs, $2.50 to $10.00 each.

. **HUMILIS** (Dwarf Fan Palm). A hardy dwarf growing palm with small, fan-shaped leaves and spiny stalks. Excellent for lawns where a dwarf palm is desired, also a splendid ornamental plant in pot or tub. We offer fine strong plants at $1.50.

OCOS AUSTRALIS (Brazilian Palm). This palm has no rival, being one of rare beauty and very ornamental; long graceful leaves of bluish green color; an ornament to any garden; 3 to 4 feet high, $3.50 each; large 6 to 8-foot plants $25.00 to $30.00 each.

. **FLEXUOSUS.** A tall growing variety of graceful habit, attaining a height of 80 to 100 feet. Its odd formation of stem and head of beautiful feathery foliage are an ornament to the finest gardens; $1.00 to $10.00 each.

. **PLUMOSUS.** A quick growing palm of tall, slender habit, with smooth trunk and crowned with graceful and finely divided leaves. A beautiful avenue palm. Rather tender and can only be grown in mild sections. Does well along the coast in frostless districts; 2 to 3 feet, $1.50; larger plants $2.50 to $25.00.

ORYPHA AUSTRALIS (Livistona Australis). A very beautiful decorative palm for house culture. In 6 inch pots, 1½ to 2 feet high $1.00 to $2.00; larger plants, in 12 inch Japanese tubs, $3.50 each.

YCAS REVOLUTA (Sago Palm). This noble cycad with its dark green leaves, which occur at the top of the plant and uncurl like a cluster of ostrich feathers, borne on a dark brown stem, is one of the best decorative plants, a very slow grower with glossy foliage. Any good garden soil will suit it. Pots should be well drained and water applied sparingly during the winter; 4 inch pots 75 cents; 5 inch $1.00; 6 inch $1.50 each.

RYTHEA ARMATA (Brahea Glauca: The Blue Palm). A native of Lower California, very hardy. One of the most exquisite fan palms, glaucous blue foliage, and slow grower; $1.00 to $3.50 each; 4 to 5 feet high, in large Japanese tubs, $15.00 each.

. **EDULIS.** One of the finest Fan Palms grown. Deep green leaves and very attractive, slender stem and more graceful than the California Fan Palm. Pot grown plants 50 cents each; 3 to 5 feet high $3.00 each.

ENTIA BELMOREANA. Very similar to K. Forsteriana but dwarfer and less erect in growth. Prices the same.

KENTIA BELMOREANA

PHOENIX CANARIENSIS

K. FORSTERIANA. The most popular palm in the world for house decoration and grown in every civilized country on the globe. The "fronds" are tall, erect, with spreading leaves borne on long, graceful stalks, deep green and most attractive. Owing to its hardiness and distinct beauty this palm has attained a standard position among decorative plants and nothing has ever yet been introduced that can remove it. We carry large stocks in all sizes from small plants in 3 inch pots at 25 cents each, to immense specimens at $20.00.

PHOENIX CANARIENSIS. One of the most beautiful palms for planting on lawns and in parks. The most graceful and handsome of our hardy palms; leaves pinnate and of a very dark green color. Besides being an out-door palm it does well in the house and on porches, where it gets good light. Makes a beautiful decorative plant when grown in a pot or Japanese tub. In pots 8 inches high 50 cents; 12 to 18 inches 75 cents, and $1.00; 2 to 3 feet balled $2.00 to $2.50; 3 to 4 feet $3.00 to $3.50; 4 to 6 feet $4.00 to $5.00; 6 to 8 feet, in large Japanese tubs (fine large well established plants) $6.00 to $8.00 each. Specially selected in small Japanese tubs 4 to 5 feet high $5.00 each.

P. RECLINATA. "Dwarf Date Palm" (12 to 20 feet). A graceful palm with drooping leaves and slender stem, but not as hardy as some of the others. Plants 3 feet high $3.00 each; large plants in Japanese tubs $6.00 each.

P. ROEBLENI. A recent introduction of great merit as a decorative palm. The leaves are like fern fronds and occur from a crown or center, which with age forms a stem like that of a tree fern. But it is in the younger stages, or say up to about ten years old that it is most beautiful for decorating; $2.00 to $7.50.

RHAPIS FLABELLIFORMIS. "Cane Palms" of China and Japan. The formation of this palm is in the form of a cluster of canes with bunches of fingered dark green leaves borne at the ends. Very ornamental, both for a house and out-door plant. In Japanese tubs $3.00 to $20.00 each.

SEAFORTHIA ELEGANS. A beautiful tall growing palm, with long pinnate leaves, hardy in Southern California; $1.50 to $2.50.

WASHINGTONIA ROBUSTA. A popular palm for street and group planting; exceptionally adapted to our warm southern climate. A favorite in all southern places. It has a tall stem of dark reddish brown, while the large fan leaves are a deep glossy green. This palm grows to a height of 75 to 100 feet. In pots 25 cents to $3.50 each; in large Japanese tubs $5.00 each.

PALMS FOR RENTAL

We have always on hand large numbers of palms and ferns for rental. Weddings, concerts and entertainments generally tax the home supply of plants to the utmost, but our plants can always be had at moderate prices. Estimates furnished on application, either for permanent or temporary decorations at private homes, theaters, churches, hotels or other public places.

THE DAHLIA

The Dahlia needs no introduction to anyone interested in gardening. Like the Chrysanthemum, it has come to be "everybody' flower and it is seen at its best during late summer.

CULTURE OF THE DAHLIA

The Dahlia is easily grown provided it has a good soil and plenty of water. Strong fertilizers are not necessary as they lead to an ext vigorous growth early in the season, before the plants begin to flower. But when once flowering begins they should be fed liberal using liquid fertilizers or dry fertilizers and watering them in. We have for some years advised the use of green plants rather than d bulbs, owing to the fact that amateurs sometimes find a difficulty in starting the bulbs. In addition to our green plants, we ha this year propagated many thousands of pot roots; and these we can ship anywhere with perfect safety. They will start easily as th have never been disturbed, while they will produce flowers earlier than green plants. We recommend them highly and as long as o stock lasts will sell at the same price as dry roots or green plants, viz., 15 cents each except where specially priced.

All of the following varieties are well established plants in 2½-inch pots.

LIST OF VARIETIES.

A. D. LIVONI (Show). Clear, bright pink quilled petals, the best pink show; 20 cents.

ADMIRATION (Peony). A large rosy red flower shaded buff. This is one of our best sellers and has already become extremely popular.

ALIGHT (Cactus). A distinct novelty. The flowers are large and full, incurving slightly and a rich, deep, fiery orange. This is the showiest of the cactus types and should be in every garden; 25 cents.

BELLE PAULE (Cactus). Old chrysanthemum growers will remember the old-time Belle Paule chrysanthemum, with its delicate lavender-edged petals with white ground. This lovely dahlia is exactly like it in color. A most beautiful variety, absolutely distinct from all others; 25 cents.

BERTHE VON LATTNER (Decorative). The petals of this fine variety are a deep rosy pink, shading to yellow at the center. A most attractive kind, quite distinct from all others; 35 cents.

BLACK PRINCE (Decorative). A good and very popular dark red.

BUTTERFLY (Cactus). A pretty combination of yellow, white and red, difficult to describe as it does not always come true to type.

CANARY BIRD (Peony). A deep Canary yellow. Very showy. 20 cents.

CARL ENGELHART (Cactus). One of the showiest of all red cactus forms and very free blooming.

CHASTE (Peony). If we were tied to one white Dahlia for garden decoration, this would be our choice. It is only moderately tall but absolutely covered with pure white flowers that are large and most effective in the mass. The habit of the plant is perfect and it is a variety we are especially proud of as it has fully justified the high opinion we formed of it last season. 25 cents.

CONDOF (Show). A pretty, compact flower of a delicate buff terra cotta shade.

Germain **DELICE.** The most beautiful pink dahlia ev raised. The soft silvery pink is so distinct that it c be picked out from any number of others with ease and collection should be without it. 30 cents.

DR. K. W. VAN GORKAM (Peony). A fine flower, rosy white wi deeper shading.

EARL OF PEMBROKE (Cactus). A beautiful clear, self-purp quite distinct from everything else in its color.

ERBPRINZESSIN REUSS, J. L. (Cactus). A very telling de red of extra fine form. There is nothing better in its color

FERNAND OLIVET. (Cactus) Flowers large, with long sten Color maroon; 20 cents each.

GEISHA (Peony). Without question the finest peony flower Dahlia ever introduced. The flowers are frequently o 8 inches across, of a rich combination of scarlet and go Unlike many other kinds the flowers are thrown well abo the foliage and notwithstanding their weight they stand well at all times. The petals are beautifully twisted a curled, it is a fine grower and altogether it is the showiest a most attractive Dahlia in cultivation; 50 cents.

Germain **GENERAL JOFFRE** (Cactus). One of the best our last year's seedlings. Offered now for the fi time. It has large and showy flowers of an extremely r and telling color, magenta shading to rose. 50 cents.

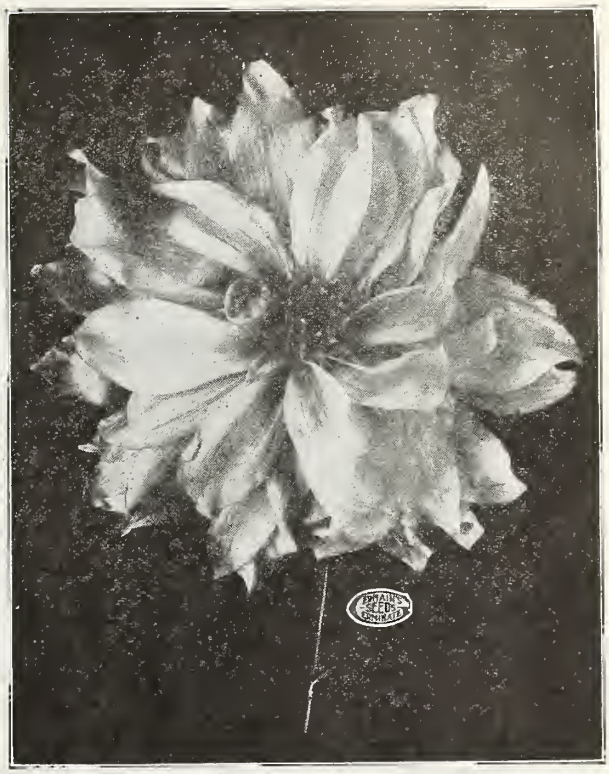
GENEVRA (Cactus). A pretty white cactus, quite distinct fro anything else in this section, dwarf and extra free bloomer.

GLORIOSA (Cactus). Bright orange scarlet with a paler ti on the back of the petals, of exquisite form.

CACTUS DAHLIA—MRS. H. SHOESMITH

CACTUS DAHLIA—BELLE PAULE

CACTUS DAHLIA—GENEVRA



DECORATIVE DAHLIA—BERTHE VON LATTNER

LDEN WEST (Decorative). The most profuse bloomer we now. It is a pleasing shade of bronze yellow, a good variety or those who have only limited space. 20 cents.

AND DUKE ALEXIS (Decorative). A well known and splendid variety. The petals are beautifully quilled, the color being white edged with lavender; very distinct; 25 cents.

MLET (Cactus). A delightful orange red with prettily quilled petals. This attracted great attention at our trials this year and we have many large orders for it.

RTULANUS FIET. (Decorative) An elegant shrimp pink tipped with gold. Profuse bloomer; 75 cents.

IGH AUSTIN (Show). A bright orange scarlet, overlaid with a deeper red. A very attractive combination.

IGO DE VOIES. (Peony) A free bloomer. Salmon pink streaked with yellow; 25 cents.

ANNE CHARMET (Decorative). Violet rose; a very pretty type; 25 cents.

Germain **KALIF** (Cactus). The new red that made such a furore at Eastern and European shows last season. Absolutely distinct and the finest of all for cutting. 35 cents.

NG EDWARD (Peony). Large and very showy, the long wavy petals being a deep claret red.

NG LEOPOLD (Peony). A fine lemon yellow of extra pure color.

RIANTE (Peony). Mauve or lavender pink.

BERTIE (Cactus). Those who remember the old Paragon single Dahlia will find the same magnificent shadings of deep maroon and carmine but in true cactus form. A winner in every way.

RD MINTO. (Cactus) A beautiful pale yellow tipped with salmon. Free bloomer.

ANXMAN (Cactus). A soft purplish scarlet, shaded orange, a beautiful thing; 25 cents.

ERVEILLE (Peony). A pretty combination of orange and yellow, very telling in the mass.

NNIE BURGLE (Decorative). The most talked of dahlia in 1916. It has magnificent flowers of intense red, and is one of the largest and most superb varieties in existence; 30 cents.

ME. DEEGEN ZOEPLIN (Fancy). Pink shaded and tipped with orange.

ONT BLANC (Show). As its name would imply a chaste pure white, large and free blooming.

RS. CHAS. TURNER (Show). A long-felt want in a pure yellow; flowers are large and borne on stiff stems; 20 cents.

MRS. EDITH CAVELL. (Cactus) A splendid free-flowering garden variety. Pure white. 25 cents.

MRS. H. SHOESMITH (Cactus). Pure white with long incurving petals. A novelty of 1909, which has won its way to great popularity.

MRS. GEO. STEVENSON (Cactus). The purest yellow to date, with long narrow petals. Stands the hot sun well without bleaching out.

PEONY 952. A seedling from Geisha. We had to raise our price on Geisha this year on account of stock shortage and a heavy demand. This is a seedling almost identical and we recommend it highly. We hold a large stock of it.

PRAIRIE FIRE. (Duplex) A very good and free bloomer. Color poppy red; 25 cents each.

PROGENITOR (Cactus). A distinct and lovely form, the petals being fimbriated at the end, each furcation having a quilled point, making it unusually attractive. The color is a deep crimson or carmine lake.

QUEEN ALEXANDRA (Peony). Pretty buff and orange tints, shading to red in the center.

ROSALIE (Decorative). A free blooming rose pink; very full, and a strong grower; one of the best of the new varieties; 25 cents.

RUBY GRINSTEAD (Cactus). Delicate fawn in the center, the petals fluted and becoming a warm pink at the points. A very popular Dahlia with cut flower growers.

H. SHOESMITH (Cactus). A refined flower with delicately quilled petals, color bright crimson. One of the best. We have the true variety.

STORM KING (Show). The earliest white; perfect form; 30 cents.

SUNSET (Show). A pretty yellow, flaked with scarlet.

THE PILOT (Cactus). A pretty shade of buff or terra cotta becoming deeper at the center of the flower. A splendid color combination.

UNIQUE (Decorative). The finest decorative we have ever known; it is the best in its class; the color a pleasing shade of pink, shading to white towards the center; stock scarce; 35 cents.

VULCAN (Cactus). An intense fiery scarlet; a tried and true variety; 20 cents.

WILLIAM DEXTER (Decorative) Beautiful deep red, of fine form; 25 cents each.

T. S. WARE (Show). A very dark wine crimson, large flowered of perfect form.

THE CHRYSANTHEMUM

CHRYSANTHEMUM COLONEL APPLETON

CULTURE—Many make the mistake of planting too early. April is early enough for any purpose and June or even July is not too late for good results. The soil should be thoroughly well prepared rather than over rich. Dig it deeply and incorporate a little well-rotted manure, mixing it thoroughly as the work proceeds. Afterwards when the plants have made a good growth and are commencing to show buds use a little of a good commercial fertilizer such as Germain's Nuvida or their special blood meal to stimulate the growth and give a high color to the flowers. If large flowers are needed the buds should all be thinned off except one at the top of each shoot, but where sprays are wanted for cutting, or garden decoration is the object, let them grow naturally, simply placing a few stakes to the strongest shoots to support them. Pompon varieties should never be disbudded, but allowed to come naturally.

IMPORTANT

We are not growers of exhibition Chrysanthemums, consequenly our stock plants are grown naturally and not heavily fed with strong manure. In this way only can a vigorous constitution be maintained and strong plants secured. Except in the case of the novelties, specially priced, our plants for spring and early summer delivery will be soldat 15 cents each, $1.25 per dozen. If required sent by mail, please add 25 cents per dozen to cover postage.

AMATEUR CONCEIAL. A very hardy variety, somewhat lighter in color than the Black Hawk, but much larger and better in form.

BESSIE GODFREY. A broad petaled canary yellow, incurved, bright and glistening. The form is all that could be desired. Can be grown to enormous size.

BRUTUS. A large, showy bronze, with reddish shading.

BLACK HAWK. The darkest chrysanthemum extant; when well grown it produces a good medium sized bloom of the darkest shade of crimson it is possible to imagine.

BRONZE BRIGHTHURST. This is a great favorite with growers of exhibition flowers, a distinct bronze yellow.

COLONEL APPLETON. A prize winner wherever shown. Flowers enormous in size, golden yellow in color. In the east a standard variety for market work. Keeping qualities the best. Unsurpassed at mid-season.

MADAME BRAUNT. A reddish bronze, incurved, of very large size. A fine exhibition bloom.

CHIEFTAIN. A grand pink, shading to white.

CRYSTAL GEM. A large-flowered chrysanthemum, rose red.

ETHEL THROOP. A beautiful mauve, shading to lavender,—one of the most charming in existence.

F. S. VALLIS. An immense flower with narrow florets and great depth. The color is pale yellow. One of the best.

GLENVIEW. One of the best of the incurved Japanese type. It has bronze petals with a deep Indian red reverse.

Germain **GOOD GRACIOUS.** A standard variety, which throws a fine large bloom. Petals long, narrow and incurving. Makes a huge flower when well grown. Bright pink.

HARVARD. True Harvard crimson, a favorite everywhere.

LADY HOPETOUN. No collection is complete unless it contains this magnificent variety. The largest pink ever sent out and always a winner at the big shows.

THE CHRYSANTHEMUM

MADAME A. MARMOTEL. An enormous exhibition variety, perfectly double. Petals rather narrow and gracefully incurved. Color, a rosy purple.

MADAM R. OBERTHEUR. A grand white, with immense reflexing and incurved blooms. The petals interlaced and twisted. It is quite different in form and character of build from other whites in the set.

MADAM SIMON JOSSIER. A new French variety, and without any doubt one of the grandest of all. It shows a marked advance over the whites of former years. The blooms are of the largest exhibition size, creamy white in color and carried on thick stiff stems. A gem in every sense.

MAJOR BONNAFFON. An early, incurved yellow grown by the hundreds of thousands for market. While it is universally grown in every civilized country, perhaps nowhere is it brought to such splendid perfection as in California where the almost continuous sunshine brings out its every good point.

MRS. H. W. RIEMAN. Deeper in color than Golden Wedding. Florets regularly incurved, very double blooms and the latest of all golden yellow varieties to flower. By taking a second bud, it can be had in perfection at Christmas time, when its magnificent bloom commands a high price.

MRS. DAVID SYME. A pure white with an absolutely perfect stem and foliage. A decided acquisition.

NEUDON MAUVE. Yellow, shading to lavender. Very large blooms.

NELLIE POCKETT. A superb variety from Australia and regarded as the highest and most refined type it is possible to produced. Petals very long, drooping and interlaced; of great depth and breadth. Creamy white.

PRESIDENT VIGER. A beautifully formed chrysanthemum. Flowers white and bronze, shading to yellow.

ED SAUNDERS. A large variety. Color bronze to yellow.

POCKETT'S CRIMSON. An Australian variety that has obtained a premier position among our exhibition kinds. It bears flowers of immense size, deep crimson with old gold reverse.

POMPONS. We carry a large stock of Pompons in all colors and can strongly recommend them for garden decoration or cut flowers.

SMITH'S SENSATION. Raised by one of our foremost American chrysanthemum growers. A large flower,—color pink, shading to white,—very choice.

T. CARRINGTON. A large, rosy crimson. A great favorite for exhibition.

UNGAWA. Broad-petalled, spreading flower, of a very distinct salmon shade with bronze markings.

WM. MEASE. A pretty rosy red, and one of the best habited for pot plants.

WM. TURNER. Possibly the largest chrysanthemum in existence, and certainly one of the very best. It bears large, almost globular flowers, 10 inches and upwards across, pure white. It brings a higher price in the Los Angeles and other markets than any other kind. A sure winner.

YELLOW PRINCE. A tawny orange. Belongs to the same class as Good Gracious, being identical in all respects save color.

THE CANNA

In the whole range of flowering herbaceous plants we have nothing quite so useful to the landscape gardener as the canna. The commoner old varieties were remarkable for brilliant coloring, but their display was of short duration. Our present day kinds are larger, equally vivid in coloring, but far more refined in appearance. Take the beautiful Hungaria for instance, or the newer Mrs. A. F. Conard; the delicate shadings are not surpassed by the most rare and valuable orchid and this is kept up month after month at a purely nominal expense. We grow many more, both of the novelties and the best standard kinds.

Dormant roots (where not priced) 15c each, per dozen $1.50. Pot roots later in the season 25c to 50c, according to variety.

AL MANTHER. A glowing Indian red with petals of a velvety texture that is very attractive. Green foliage, dwarf habit.

FURST WIED. Rather taller than the last named, pure, clear scarlet with no sign of spotting or flake. The flowers drop clear of the stem, giving it a clean appearance. Green foliage.

Germain **CARL LUTZ.** Deep golden yellow decidedly the best yellow Canna as the color is clear and bright; the habit good—fairly tall. 25 cents.

Germain **FIRE BIRD.** The largest and brightest red Canna in cultivation. A French raised novelty which we recommend with every confidence. The flowers are 8 inches across and extremely showy. 35 cents.

HERZOG VON OSTRANTE. Golden yellow, the upper portion of the sepal clear, with a blotch of crimson at the base, no streaking or spots. Bright green foliage, medium to tall.

Germain **HUNGARIA.** The most remarkable and beautiful canna ever introduced. The flowers are a pretty blush pink borne on extra large trusses. This has been the admiration of everyone at our nursery during the past season. Dwarf habit with green foliage. Price 25 cents.

KING HUMBERT. Popular and showy variety rather tall growing: red flowers and bronze foliage.

JULIUS KOCH. Another magnificient red that is bound to become popular when better known. It is listed among the novelties but we are offering it in our ordinary collection as we have a fine stock and wish to give our patrons the benefit of it.

MONT BLANC. The best white Canna in cultivation. 35 cents.

OLYMPIC. A wonderful novelty, producing immense flowers of an extremely rich, rosy red, with a flaming scarlet center and a few carmine spots. We have greatly increased our plantings this year, consequently have reduced price. 25c each.

Germain **MRS. A. F. CONARD.** The most striking of the salmon shades. A gem of the first water. Flowers large, pink, with salmon suffusion. We recommend this grand novelty with every confidence. Habit medium with bright green foliage. Price 25 cents.

MADAME SIEBERT. Golden yellow with crimson streaks at the base of the petals. A striking plant when in bloom, with deep green foliage.

STUTTGARTIA. One of the most distinct and beautiful cannas in existence, medium to tall in growth, tawny red, the red breaking into vermilion and yellow; a grand canna for the landscape gardener.

THE AZALEA

What is commonly known as the Indian Azalea is annually imported into this country from Belgium, where it is grown in immense quantities. The disturbed conditions in Europe led to great difficulties in shipping these this season, but we had our buyer on the ground and he was able to secure large lots at very reasonable prices and we are offering our patrons the benefit of these. The plants are well known and hardly need any description being so generally used for Christmas and Easter decorations. The list below contains the cream of the kinds and we have large stocks, but we request early orders to insure our not being out of the varieties chosen. Prices $2.00, $2.50 and $3.00, according to size.

AZALEA

EARLY FLOWERING VARIETIES

ERNEST ERSCHOVE. Red, semi-double, of good habit.

SCHRYVERIANA. Two different shades of pink; very showy.

SIMON MARDNER. Rosy red, one of the most popular for Christmas decoration.

MME. PETRICK. Brighter red than S. Mardner and a splendid forcing kind.

VERVAENEANA. White ground, heavily overlaid and striped with pink. A magnificent variety.

VERVAENEANA ALBA. A pure white variety of the last named, similar to it in every other way.

LATE FLOWERING VARIETIES

MME. VAN DER CRUYSSEN. A very fine kind. It can be forced early and also be held over until its natural flowering time, which is late. The color is rosy pink and it is the best habit of them all.

NIOBE. The best late white variety.

PRESIDENT DE KERCHOVE. A large flowering deep pink, rather taller in growth than most others.

PROFESSOR WOLTERS. Deep pink; one of the finest of all.

AZALEA MOLLIS. Hardy, deciduous, free flowering plant with very showy blooms.

AZALEA JAPONICA. The Japanese Azalea is smaller flowering than the Indian, but it thrives better in California, owing to climatic conditions being more suitable. Fine for Japanese gardens or for clothing bare hillsides with beautiful foliage and fine, showy flowers. We recommend it strongly. 75 cents to $5.00.

VINES AND CLIMBING PLANTS

While vines and climbers are popular everywhere, they are nowhere so necessary as in the South and West, where the average of sunny days is so high and where every house has—or should have—its porch or veranda. Porches without vines look unfinished, while fences covered with them are far more attractive than when bare. Then there are frequently dead trees or other unsightly objects that by the aid of rapid growing vines can be made objects of beauty instead. Even under growing trees where grass does not thrive and few flowering or foliage plants will keep alive there are ivies and vines to cover the bare ground with green foliage and form a delightful setting for bulbs or flower roots that like shady places but are not sufficiently attractive in themvelves to form a finished picture. Dry sunny banks are often hard to treat, either with grass or shrubs, but there are vines that will cover them with green, hiding the bare soil and preventing washing and erosion from storm water. There is, in short, no garden, no matter how large or how small, where vines cannot be used to advantage. There are rampant growers for places where a quick covering is needed, delicate ones for pillars or other places, where only a thin veil of foliage and flower is the object, vines to cling close to brick work, and others that need tying. Our patrons are cordially invited to write us explaining what they need or our representative will call on request and advise what is best to plant. Our stock of vines is very large and complete. When not otherwise priced, we can supply any of the vines named below at 15 cents for small plants, up to 75 cents for large, vigorous specimens. Where there is time for growth we always advise planting small specimens, but we also have large ones in stock that are perfectly safe to move for a quick display.

AMPELOPSIS QUINQUEFOLIA (Virginian Creeper). A well known rapid growing, deciduous, hardy vine, native to this country and a favorite everywhere. The foliage is deep green, large and showy, turning to beautiful tints of russet and crimson in autumn. 25 to 50 cents each.

Germain **A. SEMPERVIRENS.** An evergreen Ampelopsis will be a novelty to many growers. We have been working up stock as rapidly as possible and have a large number of fine plants. It is a slender vine with beautifully cut leaves and reddish tendrils, attractive everywhere; 25 to 50 cents.

A. VEITCHI (Boston Ivy). A beautiful vine, clinging closely to brick or cement work, wood or anything else with which the tendrils come in contact. Although this vine is deciduous or leaf shedding, the beautiful tracery of the stems in winter is almost as attractive as the foliage, while the fall coloring is second to nothing in nature. 25 to 50 cents each.

ASPARAGUS. (See page 105).

BIGNONIA CHERERI. One of the finest of the trumpet creepers; a rapid grower with large bright red flowers stained at the base of the tube with yellow; 50 to 75 cents each.

B. TWEEDIANA. A strong growing, self-clinging vine producing clear golden yellow flowers; 25 and 50 cents.

B. VENUSTA. A magnificent vine and one of the most popular of all. It is a strong, vigorous grower and all through the winter is completely covered with its long tubular orange-scarlet flowers. We recommend this very highly; 35 and 50 cents.

B. VIOLACEA. Bears large oval leaves, deep shining green, and large violet mauve flowers. A lovely vine. 50 cents each.

BOUGAINVILLEA BRAZILIENSIS. A large and brilliantly colored form of Bougainvillea, one of the best of all; 75 cents.

B. SANDERIANA. Much more showy than the old B. Glabra, of which it is a variety. We have discarded Glabra in favor of this; 50 cents.

B. LATERITIA. The distinct red of this variety has led to its popularity. The plant is very difficult of propagation, though a good grower when started, and this accounts for the high price at which the true type is always held; $2.50 each.

B. SPECTABILIS. A free blooming, showy kind with carmine purple flowers produced almost the year around; 35 and 50 cents. Large specimens $2.00.

CLEMATIS (VIRGIN'S BOWER)

The Clematis has long been known as one of the most beautiful of all vines. Unfortunately the plants are not always satisfactory under cultivation, though this is frequently owing to neglect or ill treatment. In the case of the choice kinds mentioned below a position exposed to the sun for part of the day only is best and they like a western exposure. The flowers are among the finest of all climbers and we recommend them highly.

C. NAMED VARIETIES. We carry a fine stock of imported pot grown plants and shall be pleased to quote names, colors and prices on application. General collection $1.00 each.

COBEA SCANDENS. A rapid grower producing purple or white bell-shaped flowers in great profusion. Please say when ordering whether the white or purple kind is needed. 25c each.

DOLICHOS (Australian Pea Vine). An elegant close growing vine with pretty deep green foliage and covered with pea-shaped rosy pink flowers all summer and nearly all winter. A most desirable and pretty perennial vine. 15c and 20c each.

FICUS REPENS. A gem for covering walls, stone pillars or other masonry, clinging closely and requiring no training. Evergreen and hardy. 15 and 25 cents each.

HEDERA HELIX (English Ivy). Too well known to need description. Its deep glossy green leaves and evergreen character, combined with great hardiness, makes it everywhere a favorite. It thrives well as a ground covering under trees. 25c to 50c each.

H. HELIX VARIEGATA. A variegated form of the last named, not quite so strong growing; 25 cents to 50 cents.

HONEYSUCKLE. See Lonicera.

IPOMEA LEARI (Blue Moon Vine). Well known rampant grower with large blue flowers; 25 cents.

I. MEXICANA ALBA. True White Moon vine. Large, pure white flowers; 25 cents.

JASMINUM GRANDIFLORUM. Large pure white fragrant flowers produced almost the whole year round. More shrubby in habit than J. officinale; 35 cents each.

J. OFFICINALE. This is the common white jasmine often miscalled "Gracile." It is one of the most satisfactory of all vines and a constant bloomer. 35 cents each.

Germain **J. PRIMULINUM.** Golden yellow flowers produced in great abundance and very fragrant. The growth is very rapid and it thrives better in shady places than many other vines. We recommend this very highly. 35 cents each.

LONICERA HALLIANA. A fine Honeysuckle for porches, being very fragrant and free blooming. 25 to 35 cents each.

L. JAPONICA AUREA. The Japanese variegated honeysuckle is one of the few variegated vines that we can strongly recommend. The leaves are closely covered with golden yellow reticulate veins almost hiding the green. This is so bright and showy that it looks at a little distance as if it were covered with yellow blossoms. It is hardy, a good grower and thrives everywhere. 35 to 50 cents each.

L. SEMPERFLORENS (Coral Flower). A lovely coral red trumpet Honeysuckle, hardy, vigorous and almost always in bloom. The flowers are long, tubular and bright coral red; a splendid vine for all purposes; 35 to 50 cents each.

L. SINENSIS. The well known Chinese honeysuckle. One of the best hardy climbers in cultivation. 35 cents each.

MANDEVILLA SUAVOLENS. A pure white flowered twiner that grows with great rapidity and likes a warm, sheltered place. The flowers are very sweetly scented. Known as the Chili Jasmine; 35 cents each.

MUEHLENBECKIA COMPLEXA (Wire Vine). A wiry stemmed trailer with small leaves, excellent for covering banks or tree stumps. Quite hardy. 35 to 50 cents each.

PASSION FLOWER. A well known vine which we can supply in all colors. 35 cents each.

PEA VINE, AUSTRALIAN. See Dolichos.

PUERARIA (Kudzu Vine). A rampant grower for covering large areas quickly; 50 cents each.

SOLANUM JASMINOIDES. A very quick grower, producing small flowers in great profusion. Fine for quickly covering outbuildings or high fences with pretty green foliage and sheaves of bloom. 35 to 50 cents each.

S. WENDLANDI (Potato Vine). This beautiful vine has deep green, large leaves, and produces in summer immense panicles of blue flowers that last a very long time in perfect condition. Not quite hardy, but thriving well in warm positions; 50 cents.

TECOMA AUSTRALIS. This Tecoma is a quick, but not rampant grower and bears panicles of quaint little creamy yellow flowers in great profusion; 25 cents.

T. CAPENSIS. A splendid vine for a warm, sunny position. The flowers are a rich crimson, and the plant is a full grower; 35 cents and 50 cents.

T. GRANDIFLORA. A hardy vigorous climber well known as the Trumpet Vine. It produces large, scarlet flowers in clusters at the end of the shoots and is one of the best of all; 35 cents.

T. JASMINOIDES. There is no more lovely or attractive vine than this. It is strictly everygreen with shining green leaves and flowers trumpet shaped with an open lip. The older types were attractive but the new kinds we are now growing such as **Alba Nova, Pure White** and **Rosea Magna, deep pink,** are among the choicest things obtainable in the way of vines. We would like to see them grown more for their merits are not as widely known as they should be. Prices from 35 cents to $1.50.

Germain **T. McKENNI.** We sell more of this vine than any other, owing to the very satisfactory growth it makes and its free blooming habit. The foliage is finely cut and handsome and the plant produces large panicles of mauve pink flowers in great abundance; 25 cents to 50 cents.

T. RADICANS (American Trumpet Flower). A well known, hardy vine producing large, bright red trumpet-shaped flowers. Free growing and an excellent plant for covering arches, pillars or tree stumps; 35 and 50 cents.

TRADESCANTIA (Wandering Jew). Free growing, soft wooded trailer, fine for quick display in hanging baskets or window boxes. Rooted cuttings 35 cents per dozen, green or variegated. Plants 10 cents.

VITIS CAPENSIS. An evergreen grape vine from South Africa that has become very popular of late. Has large leaves and is a vigorous grower; 50 cents.

WISTARIA SINENSIS. The Chinese Wistaria is one of the best of all deciduous climbers. It is rather slow growing in the early stages, but when well established covers space rapidly and in the flowering season is full of long pendant racemes of purple flowers that look like bunches of grapes. There are white as well as purple forms, also giant varieties (Multijuga), which are usually grafted on the common kind. Prices from 75 cents to $2.00, according to size and variety. Particulars of plants in stock sent on application.

The Incomparable Radiance Rose

We have been so impressed with the many attractive features of the Radiance Rose that this year we ecided to make it our leading offering to patrons. If you will examine the accompanying cut you will note hat the illustration is from an authentic photograph of a fresh cut single stem, showing at a glance the everal buds and blooms of the same flower.

The Radiance Rose is a magnificent large-flowering hybrid ea with exceptionally full, double flowers of a very distinct and leasing luminous rosy pink. The stem is extra long and stiff, olding the flower erect under all conditions. The foliage is clean nd hard and is not subject to mildew. The Radiance is a constant loomer producing no blind wood. It is one of the best outdoor oses ever introduced as it is practically always in flower, never urns in the hottest sunshine, and it exudes a rich, spicy fragrance.

The Radiance makes a good garden rose and it is excellent for itting purposes. It is also grown considerably under glass for it flowers. The Radiance is a strong bush but it is not a climber. n good soil and under good cultural conditions the Radiance will row six feet high and throw thirty-inch stems. At the recent os Angeles Flower Show the Radiance was one of the most adired of all roses because of its size, coloring and fragrance. We ve a large stock of sturdy, carefully grown Radiance bushes. he price is 75 cents each.

RADIANCE

THE ROSE

Every year the demand for roses increases and the constant call for something new has led to the introduction of many so-called velties that are in reality no better or in any way distinct from those we already possess. We do not catalogue these kinds as we ieve it is to the interests of our customers and ourselves to sell only tried and true sorts. We grow these novelties for a year, some-nes two years, and see whether or not they are an improvement on our standard kinds. If they are, we list them; if not, they are rown away. In our list of new roses below will be found the cream of the European and domestic novelties; and we can recommend em most highly. It will also be noted that we have omitted some well known names from our list. This does not mean that we do t handle them, but that we have better kinds of the same color and habit among our newer kinds For the benefit of our customers t acquainted with the varieties, we will at all times be glad to make a selection of the finest kinds for any special purpose or for ordi-ry garden decoration and cutting.

CULTURE

The rose loves a deep rich heavy soil even inclined to adobe. In such soils the growth is strong and vigorous and the flowers have at substance. But even in a light, sandy soil, roses can be made to grow well and they flower as a rule earlier than in heavy soil. To prove light soils, add clay, marl, or adobe, and use cow manure as a fertilizer rather than horse manure which is more suitable heavy land

By our careful system of balling and potting, roses can be planted at any time of the year; but the safest time to plant bare root bushes from December to March. Both heads and roots of bare-root plants must be cut back before planting and thoroughly soaked with ter afterwards. Should the roots appear to be dry on arrival, mix up some soil and water and "puddle" the roots in it for a couple hours before planting. This closes the pores of the roots temporarily and to some extent prevents loss of sap through evaporation, nost important point. In planting, thoroughly soak the soil down before adding the last or surface soil This insures every portion the root being thoroughly covered and prevents cracking of the surface owing to the top soil being loosely placed. Frequent hoeing cultivating of the surface soil is absolutely necessary, to keep this loose soil or "mulch" on the surface. Especially is it necessary er watering.

In long-distacne Express shipments we "ball" the plant out of the pot (unless otherwise ordered), to save customers transportation rges. Roses balled by our method will weigh on the average 4½ pounds; naked roots 1 to 1½ pounds. Customers selecting their roses are respectfully requested to add to the orders a few supplementary varieties, lest, by previous orders, the stock of any par-ular variety should be exhausted

bbreviations: E. T., means Everblooming Tea Roses; H. T., means Hybrid Tea; H. P., Hybrid Perpetuals; Pol, Polyantha (Baby ses); Cl. T., Climbing Teas; Cl. H. T., Climbing Hybrid Teas; Cl. N., Climbing Noisette; H. C., Hardy Climbers; Cl. Pol., Climb-Polyantha (Baby Roses)

THE BABY ROSE

The Baby Rose is becoming more popular every year. For ssing in beds it is hard to beat, as it makes a brilliant display ost every day in the year. For cutting it is much prettier n the carnation, and most varieties are very sweet scented. carry a large stock of tried and true varieties, strong plants ly for planting; 25 cents each.

NIE MULLER. Brilliant pink; produces very freely.
HO. Flesh color; panicles very large.
D. ELGER. Golden yellow; a superb variety.
CAL. The best white for cutting.
ANNE DE ARC. A fine white, always in bloom.
SSIE. Bright crimson; a splendid bedding sort.
JENNY SOUFERT. Whte, clusters very large.
LE PONCEAU. Mahogany red; very robust.
MEADOW SWEET. Salmon streaked with orange.
MADAME CECIL BRUNNER. A pretty shell pink; very popular.
MRS. TAFT. Rosy crimson; a good bedding variety.
ORLEANS. Cerise with a white center; very free.
POMPON DE LYON. Carmine rose, very robust.
PHYLLIS. Carmine pink; very distinct.
RODHATTE. Cherry red, shaded crimson; a fine bedder.
SCHNEEWITCHEN. Ivory white with golden stamens.
ZELLIA BOURGEOIS. Snow white; very dwarf; a fine bedder.

THE ROSE

CLIMBING LAMARQUE (White)

THE HOOSIER BEAUTY

GENERAL COLLECTIONS

Roses listed at 25 cents each are $2.50 per dozen.
Roses listed at 30 cents each are $3.00 per dozen.
Roses listed at 35 cents each are $3.50 per dozen.
Roses listed at 50 cents each are $5.00 per dozen.

NEW ROSES

BABY DOLL. Golden yellow, tipped with clear bright ceris The little buds and blooms are very perfect in form. Elegant finished and borne in fine, erect panicles. 35 cents each.

CRIMSON QUEEN. A very strong upright grower, flowers lar and full. Color a bright rich velvety crimson, borne on lo stems. One of the best garden roses as it is always in bloom.

J. L. MOCK (H. T.). The blooms which are produced in gre profusion, are carried on stiff and erect stems. Color, clea imperial pink. 35 cents each.

PRINCE DE ARENBERG (H. T.) We have had this rose und observation for several years and have formed a good opinion it as an outdoor rose. It has long been known as one of t best indoors. The foliage is bright and handsome, the flowe double and a bright red, a good deal like Cardinal. 50 cent

RED RADIANCE. It has the same characteristics of foliage a growth as the Pink Radiance. It is a bright cheerful shade red. 50 cents and 75 cents each.

SEPTEMBER MORN (H. T.) Last season we only had sm plants of this superb rose to offer, but this season we have good stock of field grown, one-root plants. In our trials has proved as good a rose as its parent while the color is inde cribably beautiful and never fades out as do many of the pi roses. 75 cents.

1915 THE ROSE WITHOUT A THORN (Cl. H. T.) This wo derful rose met with such a good reception last year that are again compelled to keep it in the novelty class though are enabled to lower the price considerably. The flowers a the purest white and the thornless growth makes it easy handle. It is a stron g growing climber well adapted for verand and porches. 75 cents.

MME. A. ROTHSCHILD (H. T.) Our stock of this beautif yellow rose is still small but what we have is the true gold yellow type quite distinct from some varieties sent out und this name. Instead of paling in color after cutting, it actual gets deeper in tint and we have nothing but praise for it aft after a further year's trial. 75 cents.

YELLOW CHEROKEE. Same as the white cherokee, but yello in color. 50 cents each.

SUNBURST (H. T.) Hardly a novelty any longer, but a grand yellow rose in every particular. Our stock is large and we are glad to be enabled to lower the price this season to 50 cents.

KILLARNEY BRILLIANT (H. T.) Those who have grown Killarney, described as the most popular rose in the world, will welcome this gorgeously tinted variety of their favorite. In the place of the pretty shell pink of the older type, the newcomer has a brilliant rose pink shade that is most attractive and it is a much stronger grower. 75 cents.

KILLARNEY DOUBLE WHITE. A greatly improved White Killarney with many more petals and one of the most superb white roses ever sent out. Our stock is short and we advise early orders. 75 cents.

HADLEY (H. T.) We have no hesitation in recommending this as the finest red rose to date. It is a seedling from that delightful old rose Gen. McArthur, but as superior to it as Jonkheer J. L. Mock is to La France. In our trials this season, Hadley has been the most admired of all the new roses, its fiery red flowers without a trace of purple, standing out distinct and beautiful. It stands the sun well and is perfect in every way. 75 cents.

HOOSIER BEAUTY (H. T.) This is so much like Hadley that it is hardly worth while growing both. Also a seedling of McArthur. 75 cents. See cut page 102.

MRS. GEO. SHAWYER (H. T.) A free growing, free blooming and delightful novelty of a most distinctive shade of pink. It comes next only to Radiance as a beautiful kind for cut flowers. 50 cents.

MRS. CHAS. RUSSELL. A long stemmed beautiful rose not unlike American Beauty in habit, but lighter in color. Much grown by florists for cutting. 50 cents.

MRS. AARON WARD (T.) A small grower, but delightfully full in flowering. Rich orange yellow, with a pink shading as it gets older. 35 cents.

LADY HILLINGDON (H. T.) Still one of the best and freest growing of the yellow roses, not new, but still not any too plentiful. 35 cents.

GEO. ELGER (POL.) Sometimes called "the yellow Cecil Brunner," this is one of the most delightful of all the "Baby" roses. Not only is it an excellent outdoor rose, but it makes an exquisite pot plant, the pretty soft yellow of its flowers being quite distinct from anything else in cultivation. 35 cents.

RADIANCE. If we were tied to one pink rose for cutting and outdoor decoration, Radiance wold be that one. It is a strong grower, bearing on long stems flowers of a deep luminous rosy pink. The plants never produce any blind wood, every shoot forming a flower if left long enough to develop. 75 cents.

LADY ALICE STANLEY (H. T.) An immense double rosy pink flower, produced on heavy strong stems. A gem for the outdoor rose producer. 50 cents.

MRS. W. CHRISTIE MILLER (H. T.) Similar to Lady Alice Stanley, but of a paler or flesh pink. A magnificient rose. 50 cents.

GENERAL COLLECTION

AMERICAN BEAUTY (H. P.). Deep brilliant rose carmine, shading toward the center to a rich carmine-crimson. Very fragrant. Each 35 cents.

BABY RAMBLER (Pol.) There are so many of the small polyantha roses now in cultivation, that it seems futile to catalogue any one under this name. Our list of these, both of the novelties and the older kinds, is very complete and comprises such beautiful things as the Baby Tausendschow, Orleans, Erna Teschenndorf, and a host of others that are an ornament to any garden. We make a collection of six kinds for $1.50, the prices of single plants being from 35 to 50 cents.

BELLE SIEBRECHT (H. T.). A superb pink rose of recent introduction. The buds are long and pointed and when half-blown the petals reflex in a graceful manner. 35 cents each.

BESSIE BROWN (H. T.). White, sometimes faintly flushed pink; a rose of transcendent beauty. One of the largest and fullest we have ever seen; an erect and vigorous grower, flowering profusely all summer; 25 cents each.

CLIMBING BELLE SIEBRECHT (H. T.). A most lovely clear shell pink, an exact counterpart of Belle Siebrecht except in its climbing habit. Very fragrant. A beautiful bud and flower; 35 cents each.

CLIMBING CECIL BRUNNER (Cl. Pol.). An exact counterpart of Mme. Cecil Brunner, except that it is a very vigorous, rapid climber. Its large clusters of rich pink blossoms and pronounced sweet fragrance make it one of the most valuable roses for table and house decorations; 35 cents each.

CLIMBING KILLARNEY (H. T.). A climbing variety of the Pink Rose Killarney, the most famous of the Pink Hybrid Teas, and identical in color. A strong, rapid grower, thriving to perfection in the open ground, throwing up shoots ten to fifteen feet in a single season; continuous bloomer. A deep shell pink; 50 cents each.

CLIMBING MME. TESTOUT (H. T.). A beautiful bright clear pink rose, new variety and rapid climber; flowers large and handsome; 50 cents each.

CLIMBING PAPA GONTIER (Cl. T.). This is a new variety, with the fine form and color of the favorite bush rose of same name; a vigorous grower; 30 cents each.

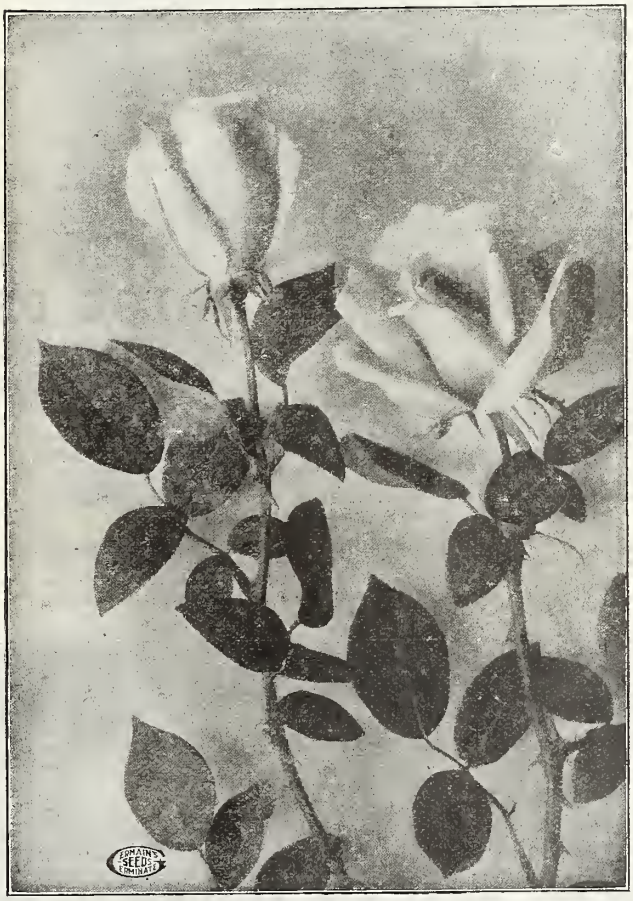
CLIMBING WOOTTON (Cl. H. T.). A handsome velvety-red color, strong grower; a superior red climbing rose; 35c each.

DOROTHY PERKINS (H. C.). A splendid rose with the habit of the Crimson Rambler. Its color is a beautiful shell-pink, and the sweet-scented flowers are borne in clusters of from thirty to fifty blooms each; 36 cents each.

ETOILE DE FRANCE (H. T.). Bright crimson, buds long and graceful, plant is of a strong growing habit, and a good bloomer; one of the best; 35 cents each.

ETOILE DE LYON (T.). This is considered one of the finest yellow bedding roses for outside planting; one of the hardiest in the Tea section, blooms freely, and every flower is a gem; equals Marechal Neil in size, strong bushes; color deep chrome yellow, a remarkable rose, deserving extensive culture; 35c each.

FRAU KARL DRUSCHKI (H. P.). The handsomest snow white rose ever introduced; free bloomer, long stems and beautiful foliage; 35 cents each.



CLIMBING KILLARNEY

GENERAL JACQUEMINOT (H. P.). Brilliant dark crimson, a most popular rose, quite large; 30 cents each.

GENERAL McARTHUR (H. T.). One of the best ever-blooming varieties, producing great quantities of deep scarlet flowers, and a very robust plant; 35 cents each.

GLOIRE DES ROSOMANES Ragged Robin). Without exception, the most constant and free-blooming of all roses; flowering well during the winter season unless checked by frost. Large, semi-double flowers of brilliant crimson hue. Unexcelled for hedge or tall borders; 25 cents each.

GOLD OF OPHIR (Cl. N.), (Beauty of Glazenwood). A beautiful rose; yellow suffused coppery red. Full, free bloomer; 30c ea.

GRUSS AN TEPLITZ (H. T.). One of the best hardy, ever-blooming roses for outdoor planting; color rich crimson, quickly turning to fiery red. Flowers large and fragrant; a constant bloomer and vigorous grower; 25 cents each.

HARRY KIRK (H. T.) A strong growing yellow rose not as much grown as its merits entitle it to be. 25 cents.

HELEN GAMBIER (H. P.). Beautiful canary yellow, with deep peach blossom center, changing to a cream as the flowers open. A handsome bush, a rapid and profuse bloomer all through the season. Flowers large and fragrant; 50 cents each.

THE ROSE—(Continued)

J. B. CLARK (H. T.). A deep, blackish crimson shading with scarlet. Has the longest stem of any rose. Beautiful foliage and a vigorous grower; 50 cents each.

KAISERIN AUGUSTA VICTORIA (H. T.). A hybrid tea rose of a soft pearly white color, tinged in the center with lemon. It is very fragrant; a strong, vigorous grower; 25 cents each.

KILLARNEY (H. T.). A beautiful shell-pink rose, fragrant and a free-bloomer. Buds are long and fine for bouquets. The most popular pink rose of the day; 25 cents each.

LA DETROIT (H. T.). An excellent rose of recent introduction. Color shell pink, shading to soft rose. Foliage rich and glossy. A rampant grower. Very fragrant; 50 cents each.

LAURETTE. Delicate, fleshy white, a constant bloomer and a remarkably vigorous grower. 35 cents each.

MADAM ALFRED CARRIER (Cl. N.). Color, shell-pink, a robust grower and profuse bloomer. A great favorite in this climate; 30c each.

MAMAN COCHET (E. T.). One of the best for summer-blooming. The buds are a beautiful, light pink color, delightfully fragrant, and are held erect on long stems; 25 cents each.

MME. ABEL CHATENAY (H. T.). This splendid rose of novel color, golden pink, flushed with salmon, is a vigorous grower, large flowers. Very rare. Fine as a cut-flower; 50 cents each.

MME. PERNET DUCHER (The Yellow La France), (H. T.). Flowers semi-double; beautiful buds, which are borne in great profusion; color bright canary yellow; 25 cents each.

MARIE VAN HOUTTE (E. T.). Pale, creamy yellow, edge of petals shaded salmon-pink. 35 cents each.

PERLE DES JARDINS (E. T.). This is a Tea-Rose of a rich shade of yellow, and is unexcelled by any rose of its color; large flowers, perfect form, healthy, vigorous grower; 35c each.

PINK CHEROKEE (Climber). A form of the well-known white Cherokee, having every desirable quality of the latter, but blooms more profusely; a beautiful salmon-rose color. Mildew proof. An exceptionally fine novelty in roses, charmingly effective for pergolas, fences, arbors, covering banks and terraces. Adapted to California, Arizona and all milder sections of the country; 35 cents each.

RAMONA or RED CHEROKEE. A rich, carmine crimson. During spring months plants are literally covered with bloom. They flower as freely as the White and Pink Cherokees, and make a splendid covering for fences, buildings, etc. 35 and 50 cents.

RICHMOND (H. T.). A grand new hybrid tea rose, strong grower, long stems, choice buds, bright scarlet; 35 cents each.

SOUVENIR DE WOOTTON (H. T.). A beautiful shade of deep crimson, exquisitely fragrant, a constant, prolific bloomer, long stems; 25 cents each.

ULRICH BRUNNER (H. P.). This is a most excellent rose, both in flower and foliage. The bloom is large, cherry-red and very fragrant. The foliage is almost thornless; 30 cents each.

WHITE CHEROKEE (Cl.) Visitors to California and the Southern States generally, never fail to be charmed with the beautiful ivory white blossoms of the true Cherokee rose. For rose hedges, for covering arbors or dead trees, or for any position where a magnificent show is needed, it is simply unrivalled. 35 to 50 cents.

WHITE MAMAN COCHET (E. T.). A pure white, hardy, ever-blooming rose of superior size, fragrance and profusion. Rivals the best; 25 cents each.

WINNIE DAVIS (H. T.). An apricot pink shading to a flesh tint at the base of the petals; the buds are oblong and well formed; a vigorous free-blooming rose. Price 35 cents each.

WM. A. RICHARDSON (Cl. N.). Orange yellow; very distinct 30 cents each.

PHLOX PERENNIAL

The herbaceous or perennial phlox is one of the finest hardy plants and it is not grown nearly as much as it should be in the south. Provided the plants get plenty of water they grow and flower with great freedom and the flowering season extends over several months. The colors range from the purest snow white to deep reds and purples, many with light ground colors and deeper center. They stand the sun well and are satisfactory in almost all soils, especially those of a somewhat heavy texture. We recommend the following varieties strongly as making a nice representative collection, but we have many others in our nurseries. Except where specially priced, 20 cents each, $2.00 per dozen.

ALBION. This is a magnificent variety with very large trusses of almost pure white flowers with a faint pink center or eye. We think very highly of this kind.

BRIDESMAID. Deeper in color than Albion, best described as a pale flesh with deep rose center, a fine thing.

Germain **F. G. VON LASSBURG.** This is the most exquisitely beautiful phlox we know. The trusses are large, as are the individual flowers, and these are absolutely pure white, like driven snow. Perfectly round, massive blooms and a superb variety in every way; 30 cents.

INSPECTOR ELPEL. A fine, large flowering salmon rose, with deep purple crimson eye, especially fine on the late buds. It is very full and a splendid garden plant.

LOTHAIR. A dwarf grower and very fine flowering; the flowers a pretty light crimson with deeper magenta crimson eye; 25 cents.

MRS. JENKINS. A beautiful dwarf white, pure and exquisite, one of the best of all.

MRS. ROBINSON. This has fine flowers of a deep rose inclining to salmon, with the center or eye a bright red.

PROFESSOR SCHELIEMAN. Dwarf grower much like Mrs. Robinson in color but flowering a little later.

WATER LILIES—(See page 108)

THE BEST THAT MONEY CAN BUY

In selecting the plants you want for your home, or yards, you will read all the pages devoted to the listing of plants, shrubs, trees and ornamental stock, and will see that our stock is wonderfully complete.

Perfection is the key note of all our growing and infinate care is given to the details of properly maturing or growing all nursery stock we offer for sale. It is healthy, thrifty and perfect in every respect and we know you will be thoroughly satisfied with any purchase made in our nursery department. We take pleasure in asking you to become patrons. Our plants are the best money can buy.

MISCELLANEOUS PLANTS

In the accompanying list will be found all the more popular plants used for flower borders and bedding out, also house plants, ferns, herbaceous perennials and water plants. Being arranged alphabetically our patrons can find what they need easier than when kept under separate headings. It is impossible to describe and catalogue all we grow and we respectfully ask our customers to write for anything they need, whether in the list or not. We are in touch with all the principal American and European nurseries, and it will be a pleasure to us to obtain anything in the trade for our patrons.

Germain **ACHYRANTHES** (Iresine). Showy bedding plants with purplish red foliage that stands the hot sun well. Much hardier and better than Coleus and not so liable to be attacked by insects. Fine for carpet bedding; 50 cents per dozen, larger plants 15 cents each.

Germain **AGAPANTHUS UMBELLATUS** (African Lily). A noble blue flowering perennial of stately habit, throwing up tall spikes crowned with an umbel of beautiful sky blue flowers. Easily grown in any good garden and it is one of the most satisfactory plants for the amateur gardener and fine for cutting. The white variety differs only from the type in having pure white flowers; 25 cents to 50 cents.

ALTERNANTHERA. Pretty little foliage plants for carpet bedding; 30 cents per dozen, $2.00 per 100—yellow or red.

ASPARAGUS PLUMOSUS. The well-known so called Asparagus Fern. It has pretty feathery green foliage, making it fine for fern dishes or table plants. In 2-inch pots 5 cents each; 50 cents per dozen; larger plants 15 cents to 25 cents each.

ASPARAGUS SPRENGERI. One of the best of all plants for porch and hanging baskets. Evergreen, with long drooping stems, this plant is one of the easiest to grow in the whole category of cultivated species and is highly recommended; 10 cents to 75 cents.

ASPIDISTRA LURIDA. One of the hardiest and best foliage plants for standing in draughty lobbies or halls where ferns and other foliage plants do not thrive. Smooth green leaves that do not catch the dust. Price 15 cents per leaf, green or variegated.

ASTER. These we grow from our own selected seed of the various types, as offered in our flower seed list. They are grown about 100 in a flat at $2.00 per flat, or 25 cents per dozen.

BEGONIA REX. One of the handsomest of all foliage plants. The leaves are very large, marbled, blotched and lined with silvery white, crimson and purple over a dark green ground, the reverse usually some shade of red. Pot plants 50c to $1.00

BEGONIA BEDDING VARIETIES. These include the semperflorens kinds, such as Vernon and the other small red and pink flowered types. They are fine for small gardens, especially in partial shade, and make a delightful edging to larger plants. In flats of 100 $3.00 per flat, in pots 10 cents, 35 cents per dozen.

BEGONIAS. Tuberous-Rooted, Fancy-Leaved Varieties.
HOAGIANA. White.
METALIEA. Pink.
SPECULATA. Spotted foliage, pink.
FUCHSIOIDES. Like the fuchsia in growth, small pink flowers, makes a splendid edging.

BANANA EDIBLE (Musa Cavendishi). The Banana of commerce. Not a success as a fruit bearer, but a handsome tropical-looking plant for a warm location; $1.00 to $2.50.

BANANA ABYSSINIAN (Musa Ensete). A splendid plant for subtropical gardens, much hardier than the edible kind and much more handsome. We have moved very large specimens of this plant during the last year or two, always with success. Small plants 75 cents to $1.50, large specimens $2.00 to $15.00.

CALADIUM ESCULENTUM (Elephants' Ear). A large-leaved tuberous-rooted plant of tropical appearance, very handsome near the house as a single specimen; 25 cents to $2.00.

CALADIUM, FANCY LEAVED. Gorgeous colored foliage plants; 30 cents to 50 cents each.

CALLA ETHIOPICA. The Calla Lily is a wellknown, easily grown, handsome plant producing large, pure white spathes with yellow spadix or center; 15 cents to 25 cents. For bulbs, see our bulb catalogue.

CANTERBURY BELLS. A popular biennial throwing up long spikes of various colored flowers; 5 cents each, 30 cents dozen; $2.00 per 100.

CANNAS. See special list on page 99.

CREEPING OR BASKET COLEUS

CYCLAMEN

CARNATIONS

We grow all the finest commercial varieties of Carnations and have a long list to offer; those mentioned are a few of the best. The prices given are for strong, well rooted plants, either from flats or pots and quite superior to the "slips" sent out at a low price by some nurserymen and mail order houses.

CORBETT, JAS. A pretty salmon pink.
DR. CHOATE. Bright scarlet.
ENCHANTRESS. The finest and most popular of all the pink carnations.
ENCHANTRESS, WHITE. A pure white form of the last named.
FAIR MAID. Shell pink, good for outdoor cutting.
LOS ANGELES. An old and popular white, fine for cutting.
VICTORY. A splendid red—one of the best of all; 10 cents.
Except where priced, 75 cents per dozen, two for 15 cents.

CENTAUREA CANDIDISSIMA. Better known as Dusty Miller. A white-leaved plant much used for bedding and for edgings to flower borders. In flats 75 cents per dozen, $5.00 per 100. In pots 10 cents each, $1.00 dozen.

COLEUS. A fin eleaved plant of many colors, excellent as a house plant and good for bedding out if the ground is well mulched and taken care of. It is not to be recommended as an ordinary garden plant, as it does not stand the hot sun without special care, and we recommend the Iresine in its place. But in the greenhouse or as a room plant it is one of the most satisfactory. We have a large number of varieties to select from; 10 cents to 50 cents.

COLEUS CREEPING. This is one of the prettiest plants we know of for hanging baskets or wall pockets, the pretty colored foliage making a delightful change from the ordinary ferns, asparagus and other green leaved subjects often chosen for this purpose; 10 cents to 50 cents.

COREOPSIS LANCEOLATA. An elegant, yellow flowering perennial that produces flowers in great abundance all through the season; 30 cents per dozen.

COLUMBINE. The State flower of Colorado and an elegant native perennial. Mixed colors, 30 cents per dozen.

CHRYSANTHEMUMS. See special list pages 98-99.

CYCLAMEN PERSICUM. One of the standard flowering plants of all countries. It makes a splendid pot plant when covered with its brightly tinted graceful blossoms, while for planting out among ferns, under trees, or in any shaded position it is one of the best of all flowering subjects, blooming for many months on end. Small plants for setting out 15 cents each; fine flowering specimens in season 75 cents to $1.50.

WHITMANII FERN

CYPERUS ALTERNIFOLIUS (Umbrella palm). An easily grown pretty little palm-like plant liking abundant moisture. In a small state it is fine for the center of fern dishes; 10 cents to 25 cents.

DAHLIA. See special list pages 96 and 97.

DAISY, ENGLISH (Bellis Perennis). Pretty little plants for small gardens or borders; 25 cents per dozen. In all colors or mixed.

DAISY, SHASTA. A fine herbaceous plant producing large white flowers with yellow centers; one of the most popular for cutting. Our strain is the large flowering, wavy petaled type that originated in Europe some years ago but which many people claim as their own. This strain is absolutely the finest in cultivation, no matter what high-flown titles are given the others to boost the price and incidentally the names of the so-called introducers; 10 cents and 15 cents each, $1.00 and $1.50 per dozen.

DAISY, TRANSVAAL (Gerbera Jamesoni). An especially beautiful plant from South Africa, long known to plant collectors and botanists, but only in recent years coming to be generally cultivated. The typical form has bright scarlet flowers, but there are also many hybrids raised in this country and in Europe of different colors; 50 cents. See page 71.

DAISY, MARGUERITE (See Marguerite).

DELPHINIUM. Noble herbaceous plants producing tall spikes of splendid flowers nearly all of which are some shade of blue. The tints range from the deepest cobalt to a pale sky blue and in some of them are various shades beautifully combined in the one flower. We know of no plant that will give more genuine satisfaction and pleasure than this and it is only owing to the immense number we grow annually that we are able to offer these grand hybrids at such a low price; 15 cents each, $1.50 per dozen.

EULALIA. Tall growing rush-like plants of elegant appearance. They grow strongly if given plenty of water and form one of the prettiest features in the garden. Especially suitable for positions near artificial or natural water. Green or variegated; 50 cents each for large clumps.

FERNS

ADIANTUM CUNEATUM (Maiden Hair). This is the most popular of all the maiden hair ferns, fine for cutting, for decoration, and making a good pot plant; 25 cents to $1.00.

ALSOPHILA AUSTRALIS (Tree Fern). One of the finest of the ferns producing an above ground stem and known as tree ferns. When fully developed it makes a trunk several feet high, with immense fronds of a delicate, lacy texture that calls forth the admiration of everyone. In sheltered positions outside, it attains magnificent proportions, also in large ferneries under glass. Even in a small state it is a luxurious grower and stands well for decoration. Small plants $1.00 to $2.00 each. Large specimens, prices on application.

CYRTOMIUM ROCKFORDI (Holly Fern). Bright, glossy green fronds somewhat resembling the holly, from which circumstance it takes its popular name; 35 cents to 75 cents each.

NEPHROLEPIS EXALTATA (Sword Fern). One of the best ferns for outdoor planting. Like the Boston fern in appearance but with narrower more erect and stiffer fronds; 50 cents.

N. BOSTONIENSIS (Boston Fern). Although one of the older ferns this is still among the most popular of all as a house plant for growing in baskets, jardinieres or wall pockets or for ordinary home use. It stands the rough treatment often given plants in the dwelling house better than most others, while its graceful arching habit makes it everywhere a favorite; 50 cents to $3.00.

Germain **N. PIERSONI.** A strong growing variety of the Boston Fern with prettilly crested fronds. At first the fronds are erect but by their weight they gradually assume an arching, and eventually a drooping pose which is attractive in the extreme. We recommend this very highly; 50 cents to $1.

ASPLENIUM NIDUS AVIS. (Bird-nest fern) Very handsome species with broad palmate leaves. A very desirable species for conservatories and indoor decoration, being quite distinct from all others. Prices 75 cents to $1.50 each.

N. WHITMANI. Owing to the fronds being finely divided and crested this beautiful variety has become known as the Ostrich Plume Fern and it is one of the most attractive of all. If the grower is careful not to wet the fronds when watering, it is as easily grown as an ordinary Boston Fern but the water lodging in the fluffy crested leaves bears them down with its weight and ruins the appearance of the plant; 50 cents to $2.00.

PTERIS. We grow a number of different Pterises, as they are so fine for fern dishes and other devices for use on the table and in the house. P. Tremula, P. Victoriae and P. Serrulata are among the best; 30 cents to 50 cents.

WOODWARDIA. Our native Woodwardia is one of the finest ferns in existence for outdoor ferneries and its long, graceful fronds are among the most beautiful in the whole fern family. Our plants are collected especially for us and well established in pots or otherwise, so that they transplant safely; 30 cents to 50 cents.

FERN DISHES. We can always make up fern dishes at the shortest notice, using customers own receptacles or otherwise, as they wish.

HANGING BASKETS. A number of these are always carried in stock, both of ferns and other plants, at prices ranging from $1.25 to $5.00. We shall be glad to make up others or wall pockets at the shortest notice at the same prices, using any plants our patrons may desire.

FERN COMPOST. Much of the difficult in growing ferns is caused by not giving them the right kind of soil and we make a special compost to suit them. Whenever ferns need repotting we advise the use of this rather than ordinary garden or potting soil. Sold in bags at 25 cents, or sacks at 75 cents each.

GIANT SHASTA DAISY

THE FUCHSIA

During the past two years we have noted a great increase in the demand for fuchsias of the newer types. This is not to be wondered at, when their many superb qualities are considered. The plants are easily grown, very free blooming, hardy in all but the coldest localities, and practically immune to all insect pests. The loveliness and grace of the flowers are unsurpassed. Our list below is not a long one, but it contains the cream of the later introductions as well as several of the older standard kinds that have never been beaten in their color and form. To introduce them to our patrons who are not acquainted with them, we will make a special price this season of $1.00 per dozen, 60 cents for 6,—our selection.

ARBORESCENS. The Tree Fuchsia. This is quite distinct from the ordinary varieties, and has a shrub or tree-like habit. It grows into immense bushes that for two-thirds of the year are covered with panicles of flowers a good deal like those of the lilac but of **true** fuschsia **shape.** It is a most attractive and interesting plant, and we recommend it highly. 15 cents.

BLACK PRINCE. Those who remember the old variety, Lord Byron, will be pleased with this, as it has the same bright pink corolla and carmine sepals as the older type, but much larger, more intense in color, and of perfect habit. 20 cents.

CHATELAINE. A magnificent fuchsia, possibly the most free flowering and attractive in cultivation. The Corolla is light crimson, gradually changing in the sepals to a violet or lake. It is very beautiful, but hard to describe. 20 cents.

ELEGANS. A good deal like a large form of Riccartoni, with royal purple sepals and crimson corolla; very free flowering and fine for an outdoor display. 15 cents.

ELM CITY. A superb double with deep purple corolla and crimson sepals, a combination of color that is most pleasing. 20 cents.

J. CHRISTIAN. A beautiful variety with large and very double pure white corolla thrown up into fine relief by the deep crimson sepals. One of the best. 20 cents.

MINNESOTA. This is an unusually distinct variety, the combination of violet purple on the corolla and light pink on the sepals making it most attractive. 20 cents.

PAOLA RADAELLI. An Eastern novelty that we think will become one of the most popular. The flowers are very large, the corolla a distinct shade of bluish violet, the sepals a rich shining red and very double. 20 cents.

RICCARTONI. The old hardy garden fuchsia with small but richly colored flowers so freely produced as to completely cover the plant. As a showy, graceful shrub it has no equal; and it is the glory of many an old-fashioned garden. 15 cents.

SNOW QUEEN. Though an old variety, we keep this on our list, for it is still unsurpassed. The flowers are very double, with pure white sepals and deep red dorolla. 15 cents.

SPECIOSA. A delightful single variety, with pale pink sepals and dark red corolla. Highly recommended. 15 cents.

GAILLARDIA. One of the showiest of garden plants. It takes rather a long time to come from seed, so we grow the plants in flats to make an immediate showing; 30 cents per dozen, $2.00 per 100.

Germain **GAZANIA SPLENDENS.** For a low flower border or for parkways we know of nothing so attractive or so suitable as the Gazania. It is perennial and almost all the year around it produces its orange or lemon yellow flowers, that are large, with a central disc of black, giving them a most distinct appearance. The lemon yellow form is new and even more attractive than the typical kind. We recommend these plants very highly, and assure our customers that they will give satisfaction. In ordering please say which color is preferred, the orange or the yellow: 10 cents each, $1.00 per dozen.

GERANIUM

ZONALE. We grow all the popular kinds, in large quantities. Prices double or single, 10 cents each, $1.00 per dozen. Lists of varieties sent on application.

IVY LEAVED. Fine for parkways and borders or for hanging and window boxes. All the popular kinds in red, pink and white; 10 cents each, $1.00 per dozen.

LADY WASHINGTON (Pelargonium). Though all geraniums are strictly speaking pelargoniums, the Lady Washington type is usually so called. There is a wonderful variety of coloring in these choice plants and although they are not as popular now as formerly they are still in considerable demand. We will be glad at any time to quote prices and give a list of varieties on hand; 20 cents each, $2.00 per dozen.

GOLDEN GLOW (Rudbeckia). In the long list of herbaceous garden plants there are few finer or more showy than this splendid Rudbeckia, a plant that is an ornament to any garden. It is strictly hardy and thrives in any good garden soil, throwing up in summer large golden yellow double flowers. The foliage is deep shining green, deeply cut and laciniated, being in itself very ornamental and showing up the golden flowers to perfection. We can confidently recommend this magnificent plant. Divisions 10 cents each, $1.00 per dozen; large field clumps 25 cents each, $2.00 per dozen.

HELIOTROPE (Cherry Pie). Well known fragrant flowers produced with great freedom on loose, almost vine-like shoots, a favorite everywhere; 25 cents.

IRIS

I. GERMANICA. The well-known flag or German Iris is a popular and showy herbaceous plant always attractive whether in or out of bloom. The foliage is smooth, shedding dust and dirt, making it a good town plant, while the flowers are very varied in color. The named varieties are higher in price than the ordinary purple or white forms and we shall be glad to furnish a list of these with prices on application. The white or purple forms are 15 cents each, $1.50 per dozen.

I. HISPANICA (Spanish Iris). This is a bulbous Iris and the bulbs are offered in our special bulb catalogue. Send for it.

I. KAEMPFERI (Japanese Iris). A most beautiful section of Iris specially adapted for growing near water. The flowers are produced on tall spikes and are indescribably beautiful in their coloring and very large. Fine clumps 50 cents each.

LIPPIA REPENS. In dry localities where grass lawns can only be maintained with difficulty, this plant makes a fine substitute. It thrives with practically no water after it is once established and in spring is covered with its pretty rosy pink flowers. It stands being walked over and prevents erosion by storm water on banks or terraces. We grow large quantities in flats, each flat containing sufficient plants for 100 square feet. Price $1.00 per flat.

LARKSPUR. See Delphinium.

LAVENDER. An old fashioned herb very popular on account of its delightful fragrance. Fine for sachets and used for distilling a perfume. Grows about 2 feet high with pale blue (lavender) flowers; 25 cents. Large plants. $1.00 each.

LOTUS PELIORHYNCHUS (Trailing Lotus). A trailing or drooping little plant, with bright scarlet flowers produced on greyish green leafy stems, the leaves being pointed almost like those of an Asparagus. It is an elegant subject for hanging baskets or wall pockets for which it is very popular; 15 cents.

LOBELIA BEDDING. Pretty dwarf blue flowering plants, very suitable for small gardens and for borders to other flowers. Grown in flats, 25 cents per dozen, 100 in a flat $2.00.

MARGUERITE OR PARIS DAISY. Possibly the most popular of the Paris daisies is Mrs. F. Sanders, a variety originated in Europe some years ago and now very widely distributed. It has pure white flowers with prettily quilled centers inclined to doubling. We also carry in stock the old style white and single yellow. Any variety 5 cents to 25 cents each according to the size of the plants.

MATILLIJA POPPY. See Romneya page 108.

MESEMBRYANTHEMUM (Ice Plant). There are several varieties and species of Mesembryanthemum used for covering rough banks to hide the soil and prevent erosion by storm water. We grow them in flats containing about 100 plants; $2.00 per flat, according to variety.

Germain **MOOREA IRIDIOIDES.** This plant is without doubt one of the most beautiful in cultivation. It is nearly related to the Iris and very much like some of the varieties in habit. It grows erect and throws up a tall spike that produces but one flower or two at a time, but continues to throw these up over a long season. The flowers are pure white, with a golden yellow ray-like blotch on the petals, giving them a chaste and bright appearance that is most pleasing. While a semi-shaded place is better for the plants than the full sun, this is not absolutely necessary and if they get plenty of water they grow and flower freely anywhere. We recommend this charming plant with the fullest confidence. Larger flowering clumps 35 cents and 50 cents; divisions 15 cents.

PAMPAS GRASS. A widely known handsome plant with tall green leaves throwing up plumes of feathery seed vessels that are much used for decoration. A fine lawn plant; $0.35 to $1.

PAPYRUS ANTIQUORUM (Cyperus Papyrus). The ancient Egyptian paper reed, historically interesting as being the plant from which the pith was secured to form the papyrus or paper of antiquity. This was made by cutting the pith into thin strips and crossing them under pressure. It is one of the most beautiful of green plants, throwing up tall, simple stems, each one crowned with a graceful umbel of smaller leaves, first erect then pendant. It likes ample water, being a member of the sedge family and therefore semi-aquatic; 50 cents to $1.00.

PARROT FEATHER. A pretty aquatic plant with moss-like foliage useful for aquariums; 5 cents each, 50 cents per dozen.

PELARGONIUM. See Geranium.

THE PETUNIA

This flower is being more widely planted each year, and is too well known to need description. It likes a sunny position. The new double varieties are extremely beautiful. Beautiful single varieties, 25 cents per dozen. Ruffled Giants, 35 cents per dozen. We also have the following double varieties:

ADMIRATION. Bright reddish violet. **ARTUS.** Bright Red.
BRIGHTNESS. Pink. **CERES.** Light purple.
MORELLO. White flaked lavender. **SNOWBALL.** White.
Prices, 2 inch pots, 10 cents; $1.00 per dozen.

PENTSTEMON. A fine herbaceous perennial comparable with the herbaceous Phlox. Our strain comprises all the best colors and largest flowers; 15 cents.

PHLOX. See special list page 104.

PHORMIUM TENAX. New Zealand Flax. A showy foliage plant with thick, erect stiff leaves and tall, erect flower spikes of variable colored flowers; 50 cents to $1.00.

THE PRIMULA

We have the best collection of Primulas that it is possible to obtain. They are rather hardy and in a semi-shaded place they make a brilliant display of color. They respond to a moderate temperature, plenty of moisture, and good drainage. As potted plants they are unsurpassed and do well in a greenhouse or conservatory. For shady rockeries and for planting with ferns, they are unexcelled.

planting. 15 cents each, $1.50 per dozen.

KEWENSIS. A distinct hybrid from the Kew Gardens, London. The flowers are yellow. The plant itself is rosette shaped and is pretty without as well as with flowers. Fine for rockeries. 20 cents for plants in 3-inch pots; larger sizes 35 and 50 cents.

MALACOIDES. Very like the Forbesii, but brighter in color and much larger. Makes a splendid pot plant. The flowers are borne in whorls around the stem. A very pretty novelty.

PEONY, HERBACEOUS. While not a success everywhere in the south, the peony when it does thrive is one of the grandest of all herbaceous plants. It produces handsome foliage and immense flowers that last a long time in perfect condition. Florists in the East think so much of this flower that hundreds of acres are grown for cut flowers alone and these are cut and placed in cold storage to keep them over as long a season as possible. We have no trouble with it ourselves and we believe that anyone who will give the plants a little care can succeed with them. Large clumps that lift best in September, 50 cents each; named varieties on application.

PYRETHRUM GOLDEN FEATHER. Golden-yellow foliaged dwarf bedding plants; 25 cents per dozen, $2.00 per 100.

Germain **PYRETHRUM ROSEUM.** A beautiful herbaceous plant with fern-like foliage and showy, yet refined flowers fine for cutting or for a long display on the plants. Perfectly hardy and thrives everywhere; 50 cents per dozen, $5.00 per 100.

ROMNEYA COULTERI (Matillija Poppy). The finest of all California's native plants and known the world over as one of the most glorious of all flowering subjects. To attain its full development this plant must be well established in a light, rich soil where it throws up great stems covered with grey-green foliage and crowned with splendid white flowers with golden yellow center. Each flower is from 6 to 9 inches across and a large plant covered with these is a truly magnificent object; 50 cents to $1.00 each.

ROSEMARY. A popular and useful herb and a pretty garden plant; 25 cents.

SALVIA SCARLET. The bright red Salvias are among the showiest of garden flowers, producing their gay blossoms over a long season. Fine for large beds or borders; 10 cents each, $1.00 per dozen.

SANTOLINA. Useful border or edging plant that may be kept dwarf by pinching or trimmed into a low hedge in formal gardens; 25 cents per dozen, $2.00 per 100.

STOCK. The Ten-Week Stock is too well known as a popular garden annual to need description, its fragrant and beautiful flowers making it everywhere a favorite. Those patrons who have been growing our stocks will not need to be reminded of their excellent quality or the high percentage of double flowers they produce. We grow many thousands of plants in the season in all the popular colors and the price is the same on all; 25 cents per dozen, $2.00 per 100. Pot grown plants, 35 cents per dozen, $2.50 per 100.

STROBILANTES DYERIANUS. The Peacock Plant. Here is a plant of rare beauty that no garden should be without. It has created a sensation wherever exhibited, winning gold and silver medals in Europe and New York. The leaves are 3 inches wide and 6 to 8 inches long. The upper side of the leaf is a brilliant Peacock Blue, shading to rose and margined with silvery green. The under side of the leaf is a deep purple. The flowers are a lovely shade of violet and are funnel shaped. For bedding, table decoration, or conservatory, it is very effective. It stands the hottest sun and is very easy to grow. Strong plants in 3-inch pots, 20 cents each, $2.00 per dozen; larger specimens, 50 cents and $1.00 each.

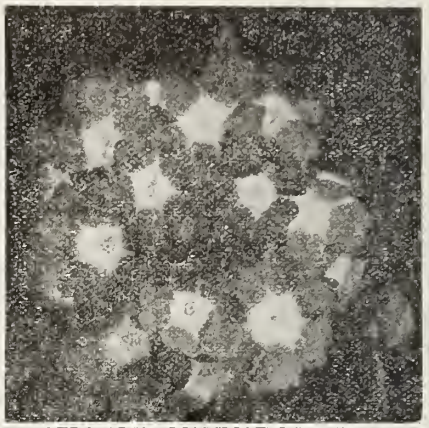
YUCCA PENDULA. One of the finest porch plants, with greyish green recurving leaves. Stands all kinds of ill treatment and is a very satisfactory plant for standing in draughty places where even rubber plants and aspidistras fail. We strongly recommend it. Balled plants 75 cents each; in Japanese tubs $1, $1.50.

VERBENAS

We have paid particular attention to our varieties of Verbenas for many years and we say without fear of contradiction that there is nothing in the world that will beat our strain. We particularly ask our patrons to note that these varieties are not raised indiscrimately from seed. No matter how good the seed, it is impossible to guarantee their coming true and the only sure way is by selection of the true types of each kind and propagating them from cuttings. We have many thousands of each variety and we can guarantee absolute satisfaction. There is only one best in the verbenas. As in any other flower, "Ours are the best." Pink, Red, Purple, Crimson, White, Yellow (rare), 35 cents per dozen, $2.50 per 100.

VINES. See special list page 100.

VIOLETS. This ever popular and fragrant little flower needs care and a semi-shady position to flower freely, yet it is often neglected and allowed to get covered with insects and then blamed because it is a failure. We have single and double blue forms, and the double white, any or all of which are an ornament to any garden; 5 cents each, 50 cents per dozen.



GERMAIN'S MAMMOTH VERBENA

WATER LILY. The aquatics in general and water lilies in particular have become extremely popular of late, and rightly so, for they are an ornament to any garden. Where there is not room for a pond a large Japanese tub makes an excellent substitute and the plants do finely. All they need is to be potted or balled in good, loamy soil and sunk in about 2 feet of water in an open, sunny spot. White and red 75 cents to $1.00. Prices of named and rare varieties on application.

WATER HYACINTH. A pretty aquatic with floating growth, producing hyacinth-like flowers of a mauve pink shade in great profusion. It grows so freely that in some southern rivers it has so choked them as to hinder navigation and become a pest, but if it grows too freely in the ordinary water garden it is easily kept in check by pulling out the strongest plants; 15 and 25 cents.

WALLFLOWER. The English wallflower is a sweetly-scented and hardy plant worthy of more attention, as it is so easily grown and always flowers freely; 25 cents per dozen, $2.00 per 100.

PANSY

Germain **GERMAIN'S GIANT PRIZE.** For many years we have been perfecting our Giant Prize strain of Pansy and we can confidently recommend it as the finest mixed Pansy in existence. Not only are the flowers large and highly colored, but the varieties are very numerous and the mixture contains all that is best in American and European Pansies to date. Each year we add the finest novelties after trying them out in our nurseries, and the immense number of plants we sell to our private customers and nurserymen sufficiently proves their merit. Strong plants 25c doz.; $2 per 100.

SEPARATE COLORS. We also grow all the best colors in Pansies separately and these are most suitable for planting where a distinct color scheme is aimed at 35 cents per dozen, $2.50 per 100.

BAY TREES (Laurus Nobilis)

Handsome ornamental evergreens trained in pyramid and globe shape, also standard globes. They are excellent for hotel, bank, theater, cafe, or other lobbies, or any place where a striking effect of a permanent character is desired. They keep green and in good condition for many years with a minimum amount of attention.

Small	size, 28–3 in. stems, 2–28 in. heads,	$22.50 pair
Medium	size, 44–50 in. stems, 24–2 in. heads,	25.00 pair
Large	size, 44–50 in. stems, –3 in. heads,	40.00 pair
	44–50 in. stems, 40–42 in. heads,	50.00 pair
Extra	large, 44–50 in. stems, 4–48 in. heads,	75.00 pair

Pyramid shape 5 ft. high, $20.00 per pair
Pyramid shape 6 to 7 ft. high $35.00 per pair

SPECIAL. Pyramidal unshaped Bay trees, in 20 inch Japanese tubs, 8 to 10 feet, $15.00 to $25.00 each.

BOXWOODS

BUXUS SEMPERVIRENS. Our imported boxwoods arrived in excellent order this year in spite of the European conditions. We have a fine line of globes, pyramid and untrained plants of varying sizes and heights and our prices are low, considering the class of stock. Untrained pyramids 24 to 30 inches high $1.50 each. Globes and larger pyramids from $7.50 to $15.00 per pair.

Germain **B. JAPONICA.** The strong sunshine of California and the southwestern states generally is hard on the foliage of Buxus sempervirens. In B. japonica we have a boxwood that stands this bright sun and keeps its color well under all conditions, provided it has plenty of root moisture. Grown entirely in the open and exposed to sun and wind the plants we offer are perfectly safe to set out anywhere. It stands a light frost without injury and is free growing, so free in fact that it is being cultivated in Los Angeles County for cutting for decoration in competition with that grown in the north and east and shipped here. There is a great future for this plant when its merits become known. Small plants 25 cents; large specimens $1.00 and $2.50.

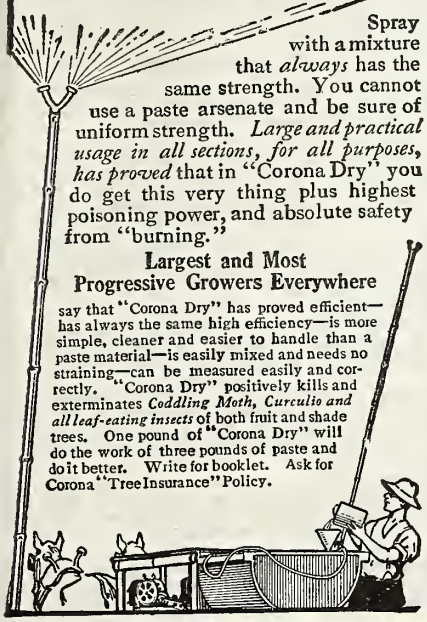
INSECTICIDES AND FUNGICIDES

NOTE.—Only items marked "Can Be Mailed" are permitted to go by parcel post, others must go by express or freight.

"CORONA DRY"
Arsenate of Lead

Patented June 10th, 1913

Eliminates guesswork. Standardizes the strength of the spray mixture. Saves work in mixing—no straining needed.



Spray with a mixture that *always* has the same strength. You cannot use a paste arsenate and be sure of uniform strength. *Large and practical usage in all sections, for all purposes, has proved* that in "Corona Dry" you do get this very thing plus highest poisoning power, and absolute safety from "burning."

Largest and Most Progressive Growers Everywhere

say that "Corona Dry" has proved efficient—has always the same high efficiency—is more simple, cleaner and easier to handle than a paste material—is easily mixed and needs no straining—can be measured easily and correctly. "Corona Dry" positively kills and exterminates *Coddling Moth, Curculio and all leaf-eating insects* of both fruit and shade trees. One pound of "Corona Dry" will do the work of three pounds of paste and do it better. Write for booklet. Ask for Corona "Tree Insurance" Policy.

"CORONA DRY" ARSENATE OF LEAD

We unhesitatingly recommend "Corona Dry" as being the best means of ridding trees and plants of all leaf-eating insects, such as codling moth, potato beetle, cabbage worms, etc. Its superiority as a successful dry powdered arsenate of lead is unquestioned, and for all uses it is far superior in all points to any paste arsenate of lead upon the market. It mixes easily, less freight to pay, economical, and always the same. One pound of "Corona Dry" will do the work of three pounds of paste and do it better. **Cannot be mailed.**

½ pound size	$0.35	25 pound size	$10.25
1 pound size	.60	50 pound size	20.00
5 pound size	2.75	100 pound size	39.50
10 pound size	5.00	200 pound size	78.00

THEY SAY IT'S FINE

Germain Seed & Plant Co., Gentlemen:

Our Association gave the Corona Dry Arsenate of Lead a thorough trial last year and were well satisfied with the results obtained. Our people were especially pleased with the saving of time in the handling and the ease with which it mixes with the water. We handled two other makes of arsenate last year, but will handle nothing but the Corona Dry this year.

(Signed) R. N. McCAHAN, Sec'y,
Beaumont Fruit Growers Association

Germain Seed & Plant Co., Gentlemen:

Last season we used in our valley two tons of Corona Dry Arsenate of Lead and found the same very satisfactory. It is very effective in killing the codling moth and also very economical in handling, and mixes readily in the water. This season it will be practically the only make of arsenate used in the valley.

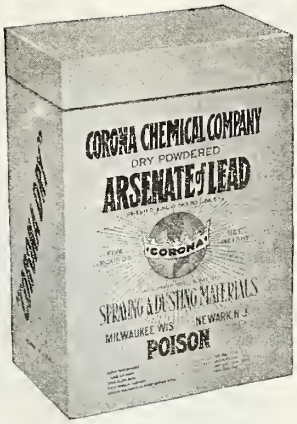
Yours very truly,
(Signed) R. L. WILSON, Horticultural Inspector,
Beaumont, California.

GARDEN PESTS AND THEIR CONTROL

CORONA DRY

The suburban dweller, and the owner of the small country place have always been seriously handicapped in their efforts to combat insect pests, which so often injure or destroy the foliage and fruit of various plants.

Methods that have proven successful for the large market gardener, or fruit raiser, are not at all adapted to the small growers' needs. They all involve the use of large quantities of water for mixing purposes, expensive and cumbersome apparatus or machinery, and skilled labor. These things are out of the question for the home gardener and fruit raiser, and the result is that, while he has often treated his potatoes with paris green, his cucumbers with hellebore, and his small fruits with paste arsenate of lead, he has been forced to endure considerable loss and disappointment through



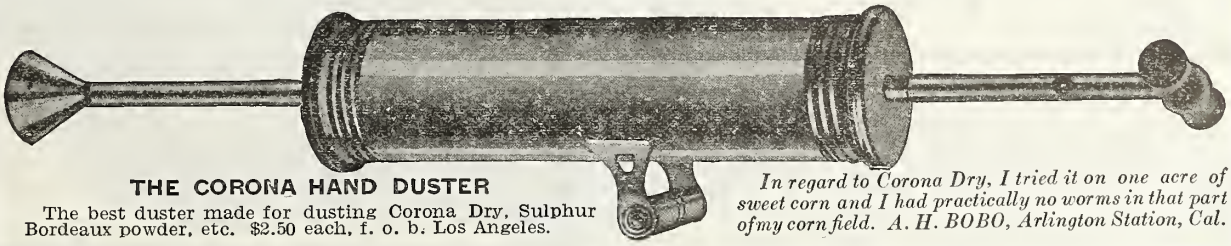
CORONA DRY

the ravages of the thousands of destructive insect pests which infest growing crops from time to time.

Experts have realized for a long time that the only method for the protection of the small fruit raiser and home gardener, was a universal insect destroyer—some preparation which would be exceedingly simple to handle, and which would control as many as possible of the insects which infest all manner of growing plants.

"CORONA DRY"
SOLVES YOUR PROBLEM

It absolutely prevents the corn ear worm as the following testimonials show. This is the only successful means of control for this pest and a trial will convince you.



THE CORONA HAND DUSTER

The best duster made for dusting Corona Dry, Sulphur Bordeaux powder, etc. $2.50 each, f. o. b. Los Angeles.

In regard to Corona Dry, I tried it on one acre of sweet corn and I had practically no worms in that part of my corn field. A. H. BOBO, Arlington Station, Cal.

INSECTICIDES AND FUNGICIDES

Black Leaf Forty. A solution of nicotine sulphate containing 40 per cent nicotine. The most highly recommended spray for soft bodied sucking insects such as plant lice, thrips, leaf hoppers. Also used for canker and currant worms, cherry slug, etc. Mixed with Lead Arsenate and Lime Sulphur it is at one time a remedy for scab, lice, and codling moth on a tree. Three sizes, ½ pound 75 cents; 2 pound can $2.50; 10 pound can $10.75. **Cannot be mailed.**

BLUESTONE

We carry only a high grade eastern Bluestone. This material is used for making Bordeaux Mixture as a spray for plant diseases, in the chicken house, etc. It is also used as a preventive for barley and wheat smut, by soaking the seed in a solution of one pound to five gallons of water for ten minutes. Per pound 20 cents. Write for prices in larger quantities. **Can be sent parcels post.**

BORDEAUX MIXTURE

This year we offer the finest Bordeaux Mixture that has ever been placed on the market. It is manufactured by the Corona Chemical Company who have so successfully placed "Corona Dry" among the growers. It is a very fine powder that mixes perfectly with water and is the ideal spray for practically all plant diseases. It can be used also with great success against gum disease of citrus trees by simply adding sufficient water to make a paste. It is also the first successful dusting powder on the market. We unqualifiedly recommend this product as being the best possible. ½ pound size 25 cents; 1 pound size 40 cents. **Can be mailed.**

Carbon Bisulphide. A highly inflamable liquid used for fumigating stored grain and seeds, to get rid of the weevil. Also used against ants. Pints, 35 cents, quarts 60 cents, gallons two dollars. **Can be sent by freight only.**

CORONA DUSTING SULPHUR

The finest and purest form of sulphur on the market. Perfect in its action, and ideal for all dusting purposes. In 20 and 75 cent packages; also larger quantities. **Can be mailed.**

Fish Oil Soap. An excellent and inexpensive means for killing plant lice and scale insects. Makes a good wash for trees and plants, kills insects and their eggs on the bark. Contains 66 per cent fish oil, which is a greater per cent than any other soap on the market; 1 pound 25 cents. In large quantities we quote very low prices.

FLORAL NICOTINE

Everybody that has a garden knows the green bug or aphis which is so prevalent on rose bushes, etc., in the spring months. Their attack results in weak plants, and in spoiled blossoms. We are now offering to the public this material known as Floral Nicotine, which is the most effective insecticide for this purpose that we know. It is a concentrated material and will give very good results; 25 cents, 50 cents, and $1.00 sizes. **Cannot be mailed.**

Formaldehyde. It is of pronounced efficiency in destroying disease germs, affecting both animal and plant sife, and is a successful preventive of fungus diseases as scab, rust, smut, etc. The dilution used is one pound (pint) Formaldehyde to 25 or 30 gallons of water; 1 pound bottle 60 cents, 5 pound bottle $2.50, 10 pounds $5.00. **Cannot be mailed.**

LEMON OIL INSECTICIDE—SCALE KILLER

We are the California distributors for this highly successful material. It has been used in the East for a long time by the florists, nurserymen and private gardeners, who recommend it for destroying scale insects, mealy bug, lice, thrips, etc. It is odorless, non-poisonous, and economical. We are very glad to be able to offer this to the public as we feel certain every user will be highly satisfied.

½	pint	$0.30	½	gallon	$1.50
1	pint	.50	1	gallon	2.50
1	quart	.90	5	gallon	11.25

Can be mailed.

Rat Cure. An efficient rat and mouse poison in tablet form. Needs no mixing with bait of any kind, and dead rodents leave no odor. In 25 cent cans. **Cannot be mailed.**

Rosin Spray. This spray is recommended by most horticultural authorities as being the best insecticide for scale insects. It is an improved form of the well-known Resin Wash, and is far more convenient to handle and on account of its greater concentration is more economical. In pounds, twenty-five cents, two pounds at forty cents, and four pound cans at seventy-five cents. Also larger sizes. The pound can makes two and one half gallons of spray. **Can be mailed.**

Lime Sulphur (Rex Brand). The best combination insecticide and fungicide on the market. A standard remedy for the San Jose and other scales on deciduous fruit trees. A sure remedy for the pear leaf blister mite and the oyster shell bark louse. As a fungicide it ranks with the well known Bordeaux Mixture. In three sizes; pints 25 cents, quarts 50 cents, gallons $1.00.

Nico-Fume Liquid. A 40 per cent nicotine solution for fumigating greenhouses and spraying plants for aphides and thrips; 8 pound cans $10.50, 4 pound cans $5.50, 1 pound cans $1.50. **Cannot be mailed.**

NICOFUME FUMIGATING PAPER

A tobacco paper of proven worth for fumigating greenhouses against aphides, thrips, etc. 24 sheet can 85 cents; 144 sheet can $4.00; 288 sheet can $7.50. **Can be mailed.**

Paris Green. The old reliable destroyer of all chewing insects, such as potato bugs, codling moth, caterpillars, roaches, etc. The most active poison known for this purpose; 1 pound $1.25. Ask for prices in larger quantities. **Cannot be mailed.**

Slug Shot. A fine powder used either in sprayer or duster, thoroughly reliable in killing currant worms, potato bugs, cabbage worms, slugs, etc. Also aids the prevention of blights. Carton 25 cents, 5 pound package 75 cents.

Soluble Sulphur Compound. A very effective material for controlling San Jose Scale, plant blight, leaf spot and many other insect pests and diseases. For full description see page 111.

Sulpho Tobacco Soap. A combination insecticide and fungicide. A good cure for aphis and other soft bodied insects, and also a remedy for mildew. Makes a fine wash for trees and bushes. 3 oz. cake 10 cents; ½ pound 20 cents.

Sulphur. (Finest Resublimed.) Prevents and cures mildew on peas, roses, beans, grapes, etc. Use no other if you wish results. Also an excellent fumigant for rooms and poultry houses. Pound 10 cents, 110 pound sack $5.50.

Talbot's Ant Exterminator. A dry, non-poisonous powder, easy to handle and safe to apply anywhere in the home or garden to get rid of ants. In four sizes; 25 cents, 50 cents, $1.00 and $4.00.

Talbot's Bed Bug Exterminator. 25 cents, 50 cents, $1.00.

Talbot's Flea and Moth Exterminator. 25 cents, 50 cents, $1.00.

Talbot's Roach Exterminator. 25 cents, 50 cents, $1.00.

All Talbot's Exterminators **are mailable.**

TOBACCO DUST

A fine powder for dusting against plant lice. Package 15 cents. **Can be mailed.**

Tree Tanglefoot. For protecting trees against climbing insect pests in a simple, economical and effective way, use Tree Tanglefoot—a sticky substance applied directly to the bark of trees. One application remains sticky on the trees three months fully exposed to the weather. Easily applied with a small wooden paddle; 1 pound will spread 8 feet long by 5 inches wide, 1-16 inch thick. Will stay on trees three months. 1 pound can 50 cents, 3 pound cans $1.25, 10 pound cans $400. **Mailable.**

Watch-It-Get-Em. This is a complete line of insecticides for the most common insects about the home. The ant powder, the bed-bug, the fly, and also the roach, are by far the best and most efficient insecticides of their kind. Sold on a guaranteed basis. In twenty-five, fifty, and dollar size cans. When ordering specify particular insect. **Can be mailed.**

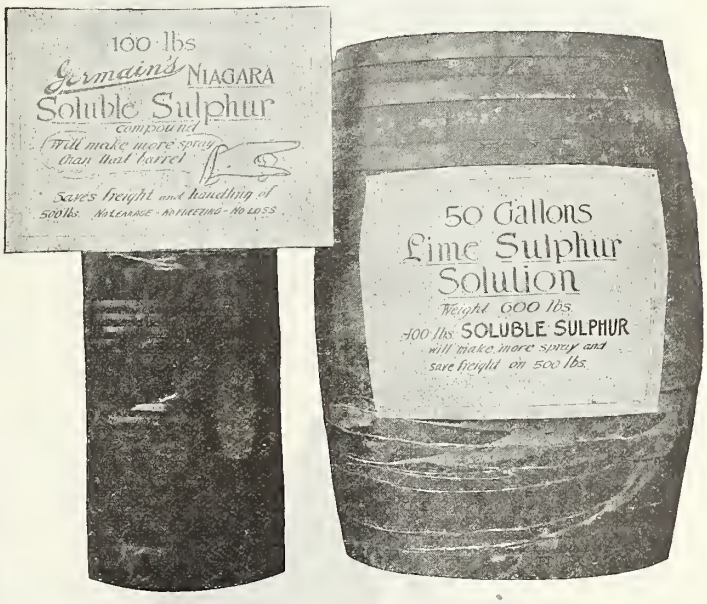
NIAGARA DUSTING SULPHUR

The finest grade of sulphur on the market. Far more effective than any other brand for dusting plants and trees, for mildew, red spider, etc. On account of its extreme fineness Niagara Sulphur will go further than any other. In 100 lb. bags, $47.5.

THE NIAGARA 3-IN-1 MIXTURE

This is a combination of arsenate of lead, sulphur, and tobacco dust, which is used as a dust and is very effective against practically all the garden troubles met with in a garden. It will kill chewing insects, aphides, and will cure mildew and other diseases. Use as directed on the package. Very effective and economical. In pound packages, thirty-five cents; 5 pound packages, $1.50; 10 pound packages, $2.50.
Cannot be mailed.

Germain's SOLUBLE SULPHUR COMPOUND



The Sulphur Tree Spray of Today

SULPHUR has always been recognized as the important ingredient of spray value in the lime-sulphur sprays. The lime has been performing the office of a "necessary" evil: simply an agency for rendering the sulphur available.

In Soluble Sulphur the sulphur is rendered available by the use of a non-injurious element, thereby allowing the sulphur to perform its work in a fuller and more complete way.

IT IS A SULPHUR SPRAY, not an **EXPERIMENT.** The sulphur is in the same chemical form as is the sulphur in the lime-sulphur solution, but being freed from the lime (the lime being found really detrimental), possesses a higher power, by fourfold, as an insecticide and fungicide.

SOLUBLE SULPHUR is very penetrating—going through and through all scale and insect crusts; whereas the lime in the lime-sulphur solution solidifies and neutralizes the sulphur, forming a harmless crust or coating. Soluble Sulphur does not paste up the surface of the tree, preventing the normal function of bark and leaves, but cleans the surface from all such hindrance to tree growth.

Soluble Sulphur is formed by compounding sulphur with soda ash, a true solvent. The solution formed by the use of this material is a natural and perfect solution with a high percentage of the polysulphides.

Germain Soluble Sulphur is put up in iron drums, weighing, when filled, 106 pounds gross shipping weight; with contents, 100 pounds net. It is also packed in 10-pound and 1-pound cans.

A 100-pound drum of Soluble Sulphur is equal to a 600-pound barrel of lime-sulphur solution; effecting a saving of 500 pounds in shipping and handling weight.

It is **used as a liquid spray as an insecticide and fungicide the same as lime-sulphur for most all purposes.**

As a measure of comparison with lime-sulphur, use 2 pounds of the dry compound in place of 1 gallon of 33 degree lime-sulphur solution.

We can save you 25 per cent and more on your spray expense. Will you let us show you'

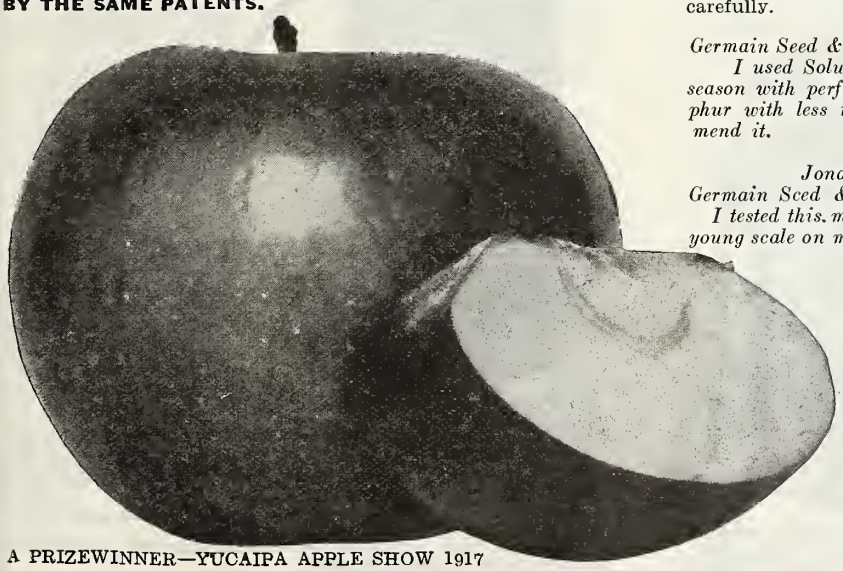
A dry powder, easily dissolved in cold or hot water.

Makes a perfect solution; used in the same way as lime-sulphur.

No sediment; no grit to wear out pumps and clog nozzles.

No Freezing—No Crystalization—No Leakage—No Loss—No barrel, with its leaky, sloppy muss, trouble and expense.

Germain **SOLUBLE SULPHUR IS IDENTICALLY THE SAME MATERIAL AS NIAGARA SOLUBLE SULPHUR OR LILLY'S SOLUBLE SULPHUR AND IS PROTECTED BY THE SAME PATENTS.**



A PRIZEWINNER—YUCAIPA APPLE SHOW 1917

Perfect Fruit Orchard Insurance

The apple shown in the engraving in opposite column was actually treated with Germain's Soluble Sulphur by Mr. Leon Atwood of Yucaipa, Calif.

It should be remembered that common soda is used extensively in the manufacture of soaps because of its grease cutting property. As used in forming the Soluble Sulphur compound this grease cutting characteristic reinforces the primary insecticide and fungicide surpassing either material alone or in other combinations such as lime-sulphur.

PRICE

100 pound drum	$10.00
10 pounds	2.00
1 pound	.35

Authority

The people who have given us the letters reproduced below are large and influential growers. They make a most thorough test of any material before recommending it as they know hundreds of other growers will rely on their word. Read these letters carefully.

Casa Blanca Ranch, Yucaipa, Cal.

Germain Seed & Plant Co.

I used Soluble Sulphur on my orchard exclusively the past season with perfect results. I find it fully equal to Lime Sulphur with less trouble and expense. I unhesitatingly recommend it.

LEON A. ATWOOD

Jonathan Club, Los Angeles, Cal., October 2, 1915.

Germain Seed & Plant Co. Gentlemen:

I tested this material out thoroughly, both on my olives and for young scale on my citrus trees in a 90-acre grove that I have, with the result thatI found Soluble Sulphur was absolutely cleaning out all the scale and in no way harming the trees. I might add that I have used about a ton and a half of this product in all.

Very sincerely yours,

M. E. Post, V. P. Amer. Olive Ass'n.

North Yakima, Wash., Feb. 10, 1915

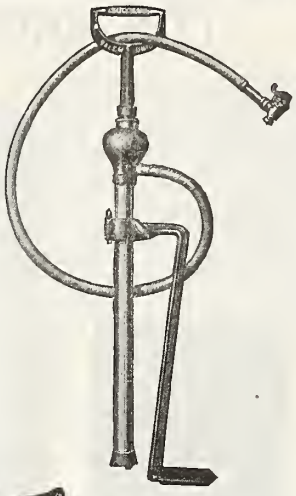
Gentlemen:

I used Soluble Sulphur last season with good results. Its work in this country was equally as good as Lime and Sulphur Solution from all accounts.

N. M. Richards

SPRAY PUMPS

THE "SUCCESS" BUCKET SPRAYER, FIG. 659



The "Success" Spray pump by its truly excellent qualities is a success, in fact as well as in name. "Nothing succeeds like success." For the garden, greenhouse and small orchard, this pump is indispensable. It is very useful for washing windows and buggies and putting out fires, as well as for whitewashing poultry houses.

The "Success" pump has become one of the most popular articles in the shelf-hardware trade where it is also a success in drawing and holding customers. Each "Success" pump sold causes more sales. The NAME "Success" is a REGISTERED TRADE-MARK and is known where ever spray pumps are used.

This pump is fitted with a 3 foot section of Hose and Bordeaux Nozzle. Packed in a cardboard box it makes a compact package which can be sent parcel post. Price $7.00. Seven-foot section of ⅜-inch hose with couplings and pole holder, for tree spraying. $2.00

THE "GARDENER'S CHOICE" SPRAYER, FIG. 651

This is one of the most convenient spraying outfits for general use. As an all-round utility sprayer it cannot be beaten. It is particularly adapted for both the garden and greenhouse, also for orchard use, as well as for spraying livestock in the barn and livery stable. It is a splendid whitewashing outfit, as the pump is strong and durable and has a good agitator.

Hose and Nozzle 12½ feet of ½-inch "Deco" discharge hose and our "Bordeaux" nozzle are furnished.

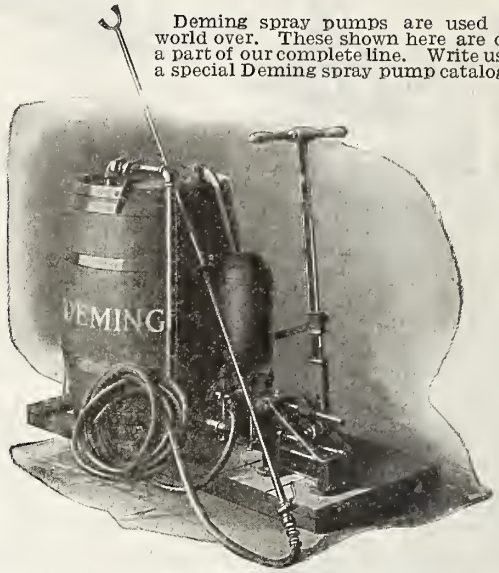
Shipping weight, including cart, when crated, is about 120 pounds. Price complete $37.00.

THE DEMING "AEROSPRA," FIG. 663

The "Aerospra" is a compressed-air sprayer of improved design with several new and valuable devices. For several years some of our agencies and principal customers have wanted us to put on the market a hand compressed-air sprayer of special merit. We have obtained one with new features of portability which is much appreciated by both the dealer and user. The operator can pump up and spray at rest, until the reduced pressure requires pumping again. The tanks are tested up to 100 pounds pressure—more than twice the pressure which is obtained by the average operator. The NAME "AEROSPRA" is A REGISTERED TRADE-MARK.

Fitted with 3 ft. section of hose, an 18 inch extension rod and Simplex Nozzle. Weight for shipment 20 pounds. Prices, Galvanized Iron tank $12.00; Brass tank $15.00. Can go parcels post.

Deming spray pumps are used the world over. These shown here are only a part of our complete line. Write us for a special Deming spray pump catalogue.

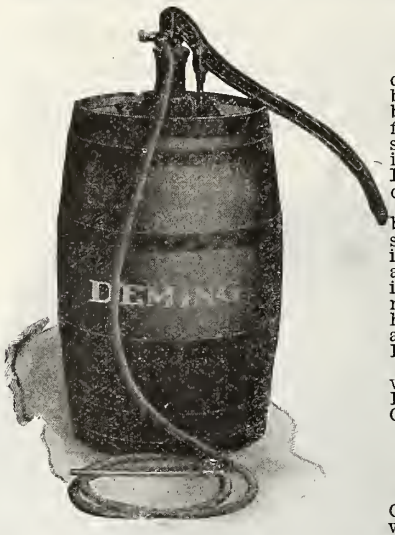


THE "PLANET" COMPLETE SPRAYING OUTFIT, FIG. 740

This style of spraying machine having a double-acting pump with horizontal plunger, has been very popular with owners of small and medium-sized orchards. It consists of the pump; 50-gallon barrel, well painted and hooped, with agitator operated from pump lever; all mounted on skids; also suction pipe, discharge hose, extension pipe and nozzles, complete ready to use. This self-contained outfit is very convenient to handle. By mounting the barrel upright on platform, we secure better agitation and greater safety in operation; such an arrangement permits the operator to stand in the center of the wagon while working the pump.

Price, $60.00, fitted into 1 inch suction hose, strainer, double discharge, 25 ft. spray hose, 8 ft. extension rod, pressure gauge, double spraying attachment, and 2 Simplex angle nozzles. Pump only without hose, barrel or nozzle, $40.00

THE "CENTURY" BARREL SPRAYER, Fig. 645



This outfit is conceded by all experts to be the best all-round barrel sprayer. It took first prize for best barrel sprayer over six competitors at the NATIONAL HORTICULTURAL contest.

The Pump sets low in barrel. The cylinder is submerged. By removing four bolts the valves and plunger are accessible. The iron base for mounting pump on head of barrel is adjustable.

Fig. 645—"Century" barrel sprayer only, with "Y" connection, Fig. 364..... $17.00

Outfit "A", as above, with one 12½-foot section of ½-inch "Deco" hose, couplings and "Simplex" angle nozzle.....20.00

Outfit "B", as above, with two 12½-foot sections of ½-inch "Deco" hose, couplings, and two "Simplex" angle nozzles.....24.00

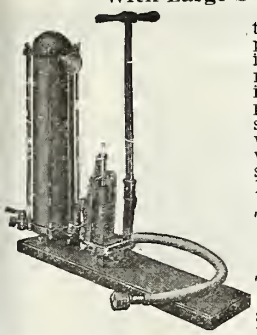
Fig. 1145—"Complete Spraying Outfit," including "Century" Pump, mounted on side of 50-gallon barrel on frame with handles; 25-foot section of ½-inch "Deco" hose; one 8-foot extension pipe, Fig. 970; double spraying attachment, Fig. 980 and two "Simplex" angle nozzles.....45.00

Section of ½-inch "Deco" sprayer hose, 12½ feet long, with couplings and "Simplex" angle nozzle..... 4.50

For longer hose, extension pipes with stop cock, and other extras write for Deming catalogue.

SPRAY PUMPS

THE "SAMSON" DOUBLE ACTING SPRAYER
With Large Steel-Tube Air Chamber



Where there are a large number of trees to be sprayed and a heavy pressure is required, the 'Samson" is the best hand pump to use. The mechanism is so well balanced that it is not tiresome to pump against a pressure of 100 pounds. The "Samson" has been a decided success and we recommend it to anyone who wants a powerful and durable hand sprayer.

Fig. 633—As illustrated and described $60.00

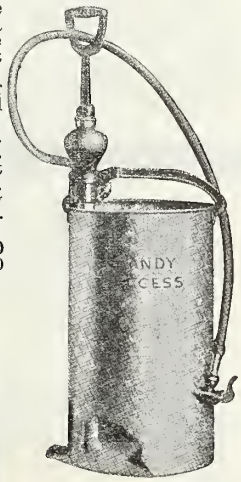
Twelve and one-half feet of ½-inch "Deco" sprayer hose, with couplings and "Simplex" angle nozzle $4.50

Twenty-five feet of ½-inch "Deco" sprayer hose, with couplings, double srpaying attachment, and two "Simplex" angle nozzles..... $8.00

Fifty feet of 1-inch "Deco" sprayer hose with couplings, double spraying attachment, and two "Simple" angle nozzles, $13.00

THE "SAMSON" COMPLETE SPRAYING OUTFIT
With Hose, Agitator, 50-gallon Barrel and Nozzles, $80

THE " HANDY SUCCESS" SPRAYER

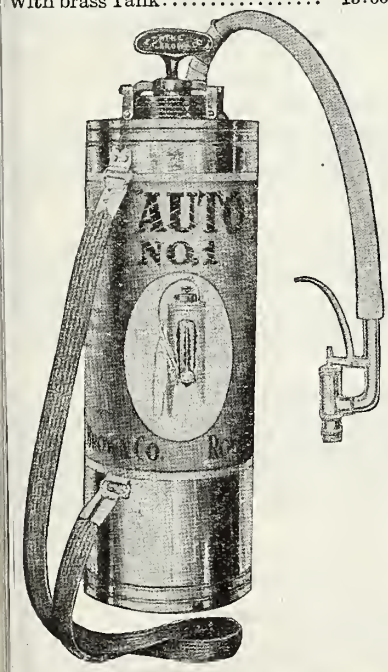


This simple arrangement of the "Success" pump in a portable tank is a very handy and useful outfit. The "Bordeaux" nozzle is used because it is the best general purpose nozzle.

The "Handy Success" is useful for the Florist, Gardener, Poultryman and Stockman.

Tank has a capacity of four gallons, being made of galvanized iron or brass, as listed below. A foot rest is placed at the bottom of the tank next to the pump. The bail and clamp hold pump rigidly without distorting the brass tube cylinder of pump.

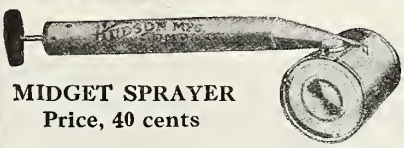
With galvanized tank..... $11.00
With brass Tank..... 15.00



The **Auto-Spray No. 1** has been standard for 15 years, and over 350,000 are in use with experiment stations and horticulturists all over the world.

The **Auto-Spray No. 1** is the strongest and most simple in its working parts of any compressed air sprayer Two pumpings of about 15 strokes on the plunger will discharge the contents under high and constant pressure. After pumping, the operator has nothing to do but direct the spray. This sprayer is equipped with patent NON-CLOGGING Nozzle.

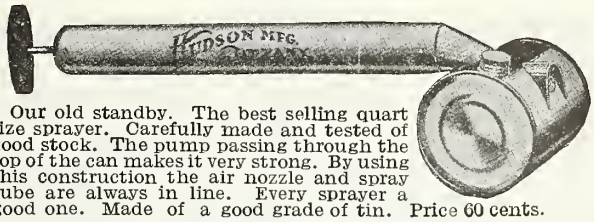
With galvanized tank $7.00
With brass tank...$9.50



MIDGET SPRAYER
Price, 40 cents

A small well made sprayer for household use. Will handle all kinds of liquids perfectly. The pointed nose of the pump passing through the tank makes it a very strong sprayer.

NEW MISTY



Our old standby. The best selling quart size sprayer. Carefully made and tested of good stock. The pump passing through the top of the can makes it very strong. By using this construction the air nozzle and spray tube are always in line. Every sprayer a good one. Made of a good grade of tin. Price 60 cents.

AUTO SPRAY NO 25
Continuous Atomizer

The Auto-Spray No. 25 operates continuously on both the up and down stroke and throws a fine misty spray. Will handle all solutions, insecticides and disinfectants. Used in the greenhouse, kitchen garden, window garden, for rose bushes and in the poultry house.

Tin $1.00
Brass..... 1.50

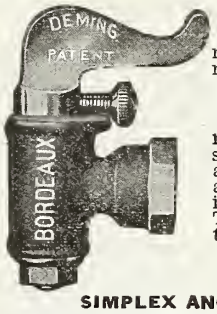
POWDER GUNS FOR APPLYING INSECT POWDER

Star	$0.15	Tornado	$0.25
Blizzard	.20	Floradora	.35

BELLOWS

These Improved Single Cone Bellows are admirable for applying powdered insecticides, such as tobacco dust, sulphur, slug shot, etc. They apply the powder evenly and thoroughly and with absolutely no waste. Five sizes:

19 inch diameter..... 1.75 22 inch diameter..... 2.25



NOZZLES

We carry a full line of nozzles of various makes. We consider the Deming the best made and heartily recommend them.

BORDEAUX NOZZLE, FIG. 965

This is the best general purpose spray nozzle ever produced. Throws a solid stream, coarse long-distance spray, or a fine mist; or it may be shut off. It is an excellent nozzle, also for whitewashing, disinfecting, etc. Easily disgorged. The name "Bordeaux" is a registered trade-mark. Price $1.25.

SIMPLEX ANGLE, FIG. 767

"Simplex," light, durable and compact. Adapted for high pressure. Has two interchangeable steel spray discs, one coarse and one medium-fine spray. Does not waste liquid. Price 75c.

THERMOMETERS

ORCHARD THERMOMETERS

The Tycos Automatic Frost Alarm. When temperature falls below 32 degrees an electric bell rings, waking up the orchard man, $30.00.

Sir Henry Cunynghame's Frost Predictor. A sure means of forecasting a frost five hours in advance, $9.00.

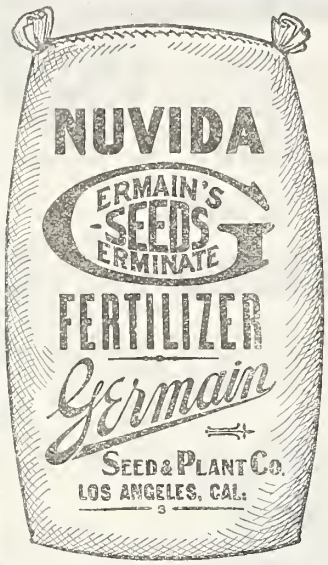
SELF-REGISTERING THERMOMETERS—"TYCOS"

No. 5452.	Minimum and Maximums—Black oxidized (brass scales, black japanned)—Tin case 8 in...	$4.50
	10 inch.....	5.00
No. 5452P.	Same as above with copper case, 8 in.....	5.00
	Same as above with copper case, 10 in.....	5.50
No. 5524.	Weather Bureau Pattern with Certificate, 12 in.	5.50

HOUSEHOLD THERMOMETERS

Outdoor		
No. 5440.	Tin Case, Black.....	$ .40
No. 5420.	Japanned Tin Case, 8 inch.....	.75
No. 5420.	Japanned Tin Case, 10 inch.....	1.00
No. 5400.	Black Japanned Tin, Standard	1.50
No. 5400P.	Copper Case.....	2.00
Indoor.		
No. 5101.	Cabinet, Flemish Oak or Ebony Back.....	1.75
No. 5908.	Candy Thermometer.....	1.50
No. 5355.	Desk Thermometer.....	1.50
No. 5353.	Radial-Scale Thermometer.....	3.00
No. 5720.	Glass Churn Thermometer.....	.75
No. 5700.	Glass Dairy Thermometer.....	1.50
No. 5981.	Hot Bed Thermometer for Mushrooms.....	2.50

FERTILIZERS



NUVIDA LAWN AND GARDEN FERTILIZER

The verdict of all who have used the Nuvida Lawn and Garden Fertilizer is that it is the most complete and satisfactory Lawn Dressing ever placed on the market. It is manufactured expressly for us and we guarantee that it contains all the elements required and in the proper proportions to produce a luxuriant growth. It is a clean, practically odorless material and can be applied without offending one's sense of smell or sight. Being quick in action the effect can be noticed within a very short time by the rich green coloring and that velvety appearance so much sought after. After applying, the sprinkling of the hose brings it down to the roots of the grass, stimulating them to greater activity, and producing a thick sward and a firm growth which remains so throughout the season. Its superiority over stable manure can scarcely be estimated, as the latter, in addition to disfiguring the lawn by its unsightly appearance, also gives out an unpleasant odor, and always contains weeds and other undesirable seeds. Great care should be taken to distribute the Fertilizer evenly and in no greater quantities than recommended. It can be applied at any time during the year, but never while the grass is wet. This material is equally suitable for flower beds, or the home truck garden.

Trial bag for 300 square feet	$0.50
25 pound sack for 750 square feet	1.00
50 pound sack for 1500 square feet	1.70
100 pound sack for 3000 square feet	3.25

WRITE FOR NUVIDA PAMPHLET

NUVIDA FLOWER AND FERN FERTILIZER

The Germain Seed & Plant Co. have endeavored for years to obtain a fertilizer which would meet all the requirements necessary for flower culture. We owe it to our large patronage to recommend only that which will give results and satisfaction. To that end we have finally perfected a fertilizer which we think will satisfy all requirements. It is of a concentrated nature, requiring but very small doses to the plant and will undoubtedly yield good results. The material is known as the NUVIDA FLOWER AND FERN FERTILIZER and we confidently feel assured of its success, because of its purity, its food value, and its proportions of fertilizer elements. Nuvida Flower and Fern Fertilizer, 35 cents per can.

Germain NUVIDA VEGETABLE FERTILIZER

This material is a concentrated complete fertilizer especially designed to meet the needs of the truck gardener. It contains the proper elements in the right proportions to obtain the best possible growth. Price 10 pounds 50 cents; 25 pounds $1.00; 50 pounds $1.85; 100 pounds $3.50.

Ask for prices in larger quantities.

BLOOD MEAL

Pure Dried Blood—This is a highly nitrogenous fertilizer rich in plant food and an excellent material for increasing growth and a profusion of flowers and fruit. 100 pounds $5.50; 50 pounds $2.85; 25 pounds $1.50; 4 pounds .25.

BONE MEAL

Bone Meal. White steamed, a finely ground materia. of high quality, useful for all crops, but especially for grass lands, fruit trees, and flower beds.

5 pounds	$0.25	50 pounds	$1.60
25 pounds	.90	100 pounds	3.00

BLOOD AND BONE FERTILIZER

A combination of blood and bone materials, very popular for garden purposes. Contains lesser amounts of nitrogen and phosphoric acid than the Nuvida. Per 100 lbs., $2.75.

FISH MEAL

A highly concentrated material composed of dried fish scrap. It is highly recommended by many gardeners as being ideal for lawn and garden growth. It is practically all available plant food and lasts a long time. 100 lbs. $4.50; 50 lbs. $2.35; 25 lbs. $1.30; 5 lbs. $0.25.

GYPSUM

Gypsum. A very high grade material, useful for correcting black alkali, loosening the heaviness of adobe and other heavy soils; $1.00 per 100 pounds, $12.00 per ton. Ask for prices in carlots.

LEAF MOLD

Leaf Mold. Fine for mixing in soil for potting house plants, ferns, etc. Per sack 75 cents.

LIME CARBONATE

Lime Carbonate. This is a material admirably adapted for use on the soil to neutralize sourness and also to add fertility. It is finely ground, easily applied and immediately effective. Will keep indefinitely when stored in a dry place. Can be applied with shovel or spreader and no time lost in slaking and sifting ordinary lime. Sold only in 100 pound sacks.

100 pound sacks	$ 1.00
One ton ... F. O. B. Los Angeles	15.00

NITRATE OF SODA

Nitrate of Soda. A fertilizer very quick in action and used for the nitrogen it contains. It creates rapid growth, is odorless, very quickly and entirely soluble. It should be applied only when the plants are above ground, usually in combination with other chemical fertilizers; 100 pounds $6.00.

PLANT FOOD TABLETS

Sterling Plant Food Tablets contain nitrogen, ammonia, phosphoric acid and potash. This is a new scientific odorless concentrated fertilizer for potted plants. Takes the place of liquid manure. It starts the plants at once into a healthy and vigorous growth and makes them grow and bloom luxuriantly. They also kill worms and insects in the soil. Trial box 10 cents, mailed free. Large box 25 cents, mailed free.

SHEEP FERTILIZER

Pulverized Sheep Manure. We recommend the Nuvida Brand of Sheep Manure for all purposes where a high grade organic fertilizer is required. It is pure and unadulterated and gathered from the great sheep corrals of the western plains. It is excellent for flower beds, lawns and can be used with splendid success on golf courses, and grass tennis courts. Used at the rate of about 100 pounds to 1500 square feet.

100 pounds	$1.75
50 pounds	1.00
25 pounds	.65

Five cents per pound in small quantities.

SULPHATE OF AMMONIA

The richest nitrogen bearing material commonly sold for fertilizing purposes. Considered one of the best materials to use on account of its effectiveness and high degree of solubility. Per 100 lbs., $8.50

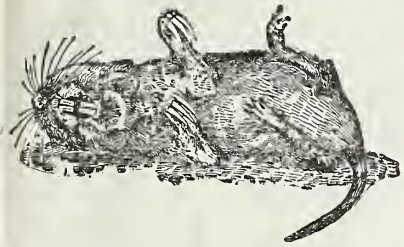
NUVIDA SUPERPHOSPHATE

Nuvida Superphosphate. We strongly urge alfalfa growers to use a good superphosphate and notice the wonderful results. Our material has been extensively used and has proven very satisfactory. Its unvarying quality and uniform condition has gained a reputation for it in the farming communities; $2.00 per 100 pounds. Ask for quotations in larger quantities.

GOPHER, RAT, SQUIRREL POISONS AND TRAPS

GOPHERGO

(Machine Poisoned Raisins)



GOPHERGO

Ready and easy to use. No mixing, no waste, never loses strength. Guaranteed to do the work or your money refunded. The only thing that will get a pocket gopher, and will kill ten where a trap will get one. **Not mailable.**

10 oz. can....	**$0.35**
1½ lb. can....	**.60**
3½ lb. can....	**1.25**

KILMOL

This is a preparation which is recommended by State and Government authorities as being the most effective method for exterminating gophers and squirrels. It is composed of a liquid that gives off asphyxiating gases and also irritant poisons which insure the death of the animals. This material can be applied with either a special pump for that purpose or the waste ball method. (Not mailable.) Prices 1 gallon $1.75; 5 gallon can $6.50. Write for circular.

Carbon Bisulphide. This is a liquid which when placed in a gopher or rat hole gives off fumes which are poisonous to these rodents. In the open air there is no danger to the operator. Quarts 60 cents, gallon $.2.00 **Not mailable.**

WASTE BALLS

These balls are made of jute and absorb about an ounce of Kilmol or carbon bisulphide. These are placed in the hole and a match applied. This is a satisfactory method during the rainy season. Price 60 cents per 100.

Germain POISONED BARLEY

NEW FORMULA U. S. GOVERNMENT SQUIRREL POISON

Extensive experience with this type of Poisoned Barley has shown an efficiency far ahead of any other type of poisoned grain tested. The percentage of squirrels destroyed is far higher than with any other type of poisoned grain used.

The bitter taste of the strychnine is delayed for several minutes and squirrels can place in their cheek pouches a considerable quantity before any bitter taste is noted; it is then too late for the squirrel to get rid of the poison, as enough has been absorbed to kill the animal.

Prices, 1 pound can 40 cents; 5 pound can $1.50; 50 pound drum $10.00; 100 pound drum $17.00. **Not mailable.**

KILMOL SQUIRREL DESTRUCTOR

This machine was invented by the U. S. Public Health Service and in tests has proven 100% efficiency. It consists of a pump that vaporizes the Kilmol filling the gopher or squirrel hole with the poisonous gas. Kilmol when used in the destructor costs from 18 to 28 cents per acre and requires going over once only in order to get rid of the pests. Kilmol Squirrel Destructor $16.00. Write for circular.

Eureka Squirrel Exterminator. By working the bellows the Carbon Bisulphide generates a gas which is forced into the gopher holes, not forcing any of the liquid. Price $9.00.

TRAPS

Mole. The Little Giant. Easy setting and sure catch; 75 cents.
Gopher. The Maccabee. A steel spring wire; 20 cents.
Nox-All Trap. All steel box trap; 25 cents.
California Wood Box Trap; 25 cents.

NURSERY AND ORCHARD SUPPLIES

EXPAN TREE PROTECTORS

Be sure to state the size and kind you want, and then we can fill your order correctly.

No. 3 per 1000			Black per 1000		
inch	lbs.	price	inch	lbs.	price
12	43	8.50	12	65	7.00
14	50	9.75	14	77	8.25
18	65	10.50	18	100	9.00
24	85	12.50	24	135	11.00

YUCCA TREE PROTECTORS

	Wgt. per 100	Per 100	Per 1000
12 inches long, 7 inches wide.....	9	$1.25	$11.50
14 " " 7 " "	10	1.35	12.00
16 " " 7 " "	12	1.50	13.50
18 " " 7 " "	13	1.75	15.00
24 " " 7 " "	18	2.00	18.00
30 " " 7 " "	22	2.25	21.00

Tree Props. The Woodward, copper wire fastenings to hold the limb; $1.75 per hundred.

PLANT STAKES

Round, Painted Green and Smoothly Turned

	Doz.	100
2 feet, light.....	**$0.35**	**$2.25**
3 feet, light.....	**.50**	**3.75**
4 feet, light.....	**.75**	**5.50**
3 feet, heavy....	**.85**	**6.50**
4 feet, heavy....	**1.25**	**8.00**
5 feet, heavy....	**1.50**	**12.00**
6 feet, heavy....	**2.00**	**15.00**

LABELS

	Per 100
Pot Labels.	
4 inch.....	**$0.15**
5 inch.....	**.20**
6 inch.....	**.25**
Garden Labels.	
8 inch.....	**$0.75**
12 inch.....	**1.00**

Stakes. Bamboo. Fine for young trees and other light plants; 5 ft. $1.50; 6 ft. $1.75.

Iron Wired Tree Labels. 3½ in. 20 cents per 100; $1.35 per 1,000.

Copper Wired Tree Labels. 3½ in. 25 cents per 100; $1.75 per 1,000.

WIRE HANGING BASKETS

8 inch.....	**$0.25**	12 inch.....	**$0.40**
10 inch.....	**.30**	14 inch.....	**.60**

FLOWER POTS (Packing at Cost)

	Each	Per Doz.		Each	Per Doz.
2 inch, 3 for..	**$0.05**	**$0.20**	7 inch.....	**$0.15**	**$1.25**
2½ inch, 2 for..	**.05**	**.25**	8 inch.....	**.15**	**1.50**
3 inch, 3 for..	**.10**	**.35**	9 inch.....	**.20**	**2.00**
4 inch.....	**.05**	**.50**	10 inch.....	**.25**	**2.75**
5 inch, 2 for..	**.15**	**.75**	12 inch.....	**.60**	**6.00**
6 inch.....	**.10**	**1.00**	14 inch.....	**1.00**	.....

Fern Pots, about half size of flower pots, prices are the same.

FLOWER POT SAUCERS (Packing at Cost)

	Each	Per Doz.		Each	Per Doz.
4 inch, 3 for....	**$0.10**	**$0.35**	9 inch.....	**$0.15**	**$1.50**
5 inch.....	**.05**	**.50**	10 inch.....	**.20**	**2.00**
6 inch.....	**.05**	**.60**	12 inch.....	**.25**	**2.50**
7 inch.....	**.10**	**.75**	14 inch.....	**.40**	**4.00**
8 inch.....	**.10**	**1.00**			

TAR PAPER POTS (Open bottom)

Size	Price per M	Weight per M
1½ x 1½ x 3 inch	$2.00	18 pounds
2 x 2 x 3 inch	2.25	22 pounds
2 x 2 x 4 inch	2.50	29 pounds
2 x 2 x 5 inch	3.00	37 pounds
2 x 2 x 6 inch	3.50	44 pounds
3 x 3 x 4 inch	3.75	44 pounds
3 x 3 x 5 inch	4.00	55 pounds
3 x 3 x 6 inch	4.50	66 pounds
3 x 3 x 8 inch	5.50	85 pounds

(In small quantities 50 cents to 75 cents per 100.)

JAPANESE TUBS

We always carry a large assortment of Japanese tubs for porch plants, in four sizes, varnished:

	Each		Each
8 inches in diameter...	**$0.50**	20 inches in diameter...	**$1.50**
12 inches in diameter...	**.75**	16 inches in diameter (very scarce).....	**2.50**

MOSS

Moss Green. Fine and fresh. Is not stained. The best for hanging baskets. Per pound 15 cents. Quantity price on application.

Sphagnum Moss. Per bale $2.00.

MISCELLANEOUS

Garden Lines. In balls, 50 cents.

Beeswax. A doubly refined yellow wax unexcelled for pruning and grafting purposes. Put up in two convenient sizes. Pound cake 50 cents, ounce cake 5 cents.

Budding Cloth. A cloth treated with resin and beeswax, useful for all budding and grafting purposes. Put up in ½ square yard and 1 square yard. The prices are respectively: 40 cents and 75 cents.

Grafting Wax. A Lion Brand preparation for healing wounds on trees caused by pruning. Very excellent also for spreading around the graft in grafting propagation. Three sizes: pound 40 cents, ½ pound 25 cents, and ¼ pound 15 cents.

Rosin. A powdered material used in making grafting wax and budding cloth. One pound package 20 cents, 4 pound package 75 cents.

Pencils, Wolf's Indelible. Will dispense with painting labels; 15 cents each.

Raffia. (See also page 100.) Best tying material for plants. Pound 60 cents. Special prices on large quantities.

DIBBLES

(14) **Iron.** With steel point. 50 cents.
Wood. With brass point. $1.00.

FORKS

Spading. 4-tined Diamond Back. Ladies size D handle, 85 cents; (20) Strap Ferrule D handle $1.25; Solid Shank D handle, $2.00; Plain Ferrule, long handle $1.25; Strap Ferrule, long handle, $1.25; Solid Shank, long handle, $2.00.
Hay. 2-tined, long handle. Strap Ferrule, $1.25; 3-tined Strap Ferrule, $1.50.
(10) **Manure.** 4-tined, long handle. Plain Ferrule, $1.00; Strap Ferrule, $1.15.

GRASS HOOKS

(15) **Village Blacksmith.** Hand made of best steel. Light 50 cents, heavy 60 cents. **Scythe** $1.00. **Snathe** $1.00.

HOES

Ladies' Size: 5 in. 75 cents, 6 or 7 in. shank hoe 75 cents.
(28) 6 or 7 in. socket hoe 85 cents, 10 in. 95 cents.
Planters: 6 in. 50 cents, 7 in. 50 cents, 9 in. 75 cents, 10 in. 85 cents. Handles for same 50 cents each.
(18) **Warren:** 6 in. $1.15, 7 in. $1.25.
(4) **Scuffle:** 7 in. 85 cents, 8 in. 90 cents, 10 in. $1.15.
(13) **Hoe and Rake Combined.** According to size, 60c to 85c.
Norcross Cultivators. Have a 4½ foot handle with 3 cultivator teeth, 85 cents. With 5 teeth $1.10.
Dig Ezy, 75 cents. **Best Thinning,** short handle, 65 cents.
Onion Weeder. Short handle, 50 cents each.
(30) **Manure Hooks.** Four round tines, goose neck, $1.00. Five tines, $1.25. Four diamond back tines, medium weight, $1.00. Extra heavy, $1.15.

KNIVES

Corn, 18 in. blade, 50c. (11) Potato curved blade, 15c.
Asparagus Knife, 50 cents.
(21) **Pruning.** German imported (Henckels) and American makes, 60 cents to $1.25.
Orange Clippers, 75 cents.
Post Hole Digger, $1.25.
Soil Augers. 3 feet long, $3.50. Extra extensions can be secured.
Soil Testers, The King. A brass tube with a steel point having a heavy iron plunger. A sample of soil can be secured at any depth up to 6 feet. Price $10.50.

RAKES

(22) **All Steel,** 14 teeth $1.00, 16 teeth $1.10. Extra heavy 16 teeth $1.50.
(5) **Wire Lawn.** 18 teeth 75c, 24 teeth 90c, including handle.
Malleable Iron. 6 tooth 45 cents, 14 and 16 teeth 50 cents.
(8) **Steel Bow.** 11 teeth $1.00, 13 teeth $1.15, 15 teeth $1.25.

PRUNING SAWS

(9) **Browns.** 16 in. 75 cents.
Crescent Shape. 12 in. and 14 in. 75 cents.
(31) **Double Edge.** Fine teeth on one side and coarse on the other, 15 in. $1.00; 17 in. $1.25.

SHEARS

(1) **Border or Edging.** 9 in. blade, long handle, $4.50. (25-26) **Hedge Shear.** 6 in. blade $1.25, 8 in. $1.75, 9 in. $2.00, 10 in. $2.25.
(27) **Tree Looping,** $1.25 to $2.50.
(16) Border shear, with wheel, $4.00.
Pruning, $1.50, $1.75 and $2.00 (Nos. 32-33-34).
" " small for ladies use, $1.00 and $1.25, nickle plate.
Orchard King Pruner. Has a compound leverage; will cut a live tree branch 2 in. thick without bruising the tree, $3.50.
Detroit. 6-foot handle $1.75, 8-foot $2.00, 10-foot $2.25. The **Happy Thought** has a forked end, making a fine tool for close work. 6-foot $1.75, 8-foot $2.00, 10-foot $2.25.
Kansas City cuts automatically by pull on handle, 7-foot $3.50.
(17) Tree Pruning Lees Telegraph, 6-ft. $1, 8-ft. $1.25, 10-ft. $1.50.
Grass. Village Blacksmith, very best made, from 50c to $1.25.

SHOVELS

Round Point Strapped. Long handle $1.50, D handle $1.50.
Round Point Solid Socket Long or D handle $2.25.
(29) Square Point Strapped Long handle $1.50. (24) D handle $1.50.
Square Point Solid Socket, Long or D handle, $2.25.

SPADES

(29) **Long Handle.** Strapped $1.50. Solid Socket $2.25.
(2) **D Handle.** Strapped $1.50. Solid Socket $2.25.
Drain. 18 in. blade $2.25. Ladies' or Boys' D handle, $1.50.
Garden Sets. Boys' or Ladies', three piece of best steel (a hoe, rake and shovel), $1.50 to $2.00. With spading fork, $2.75.
Tree Props. The Woodward, Copper wire fastenings to hold the limb, $2.25 per hundred.

TROWELS

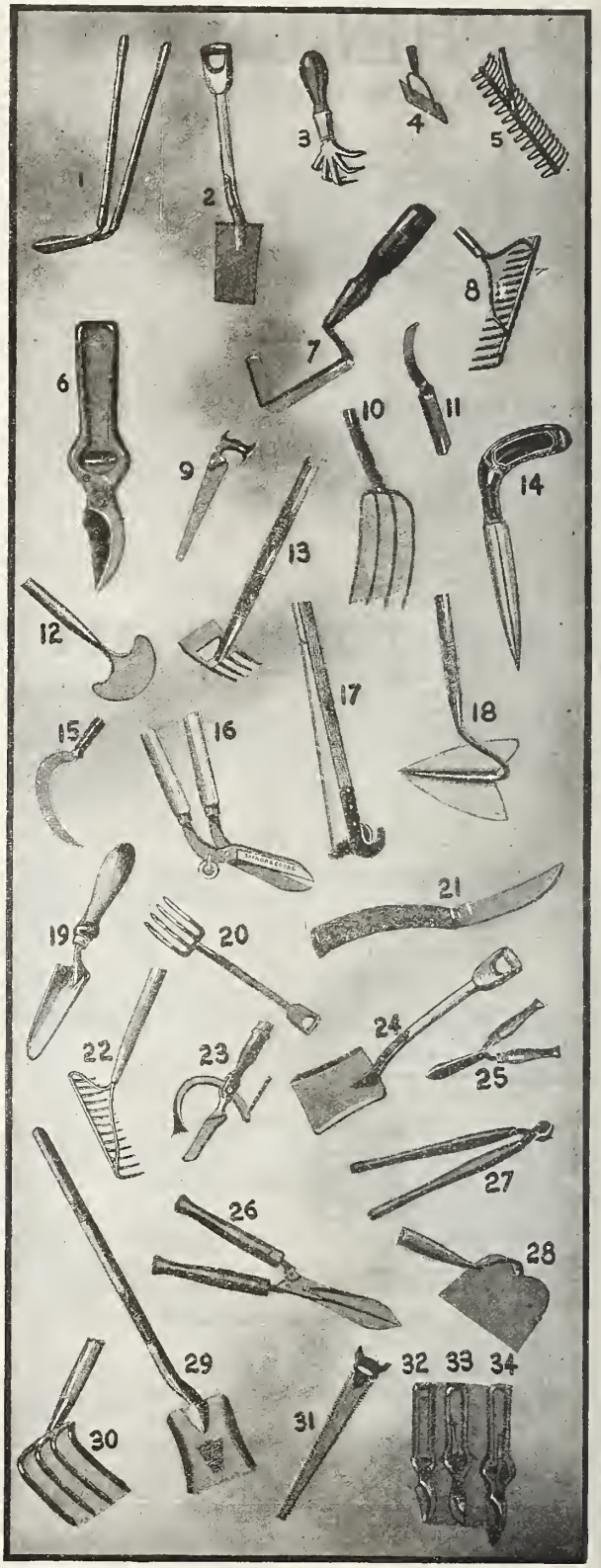
(19) A two-pieced 6 in. tinned 10 cents. Pressed steel 25 cents. Pressed steel heavy 35 cents. Steel with solid shank, straight or crooked 75 cents. (12) Turf edgers have a 4½-foot handle, used for trimming lawns, 75 cents.

WEEDERS

(3) **Excelsior,** 15 cents. (7) **Hazeltine,** 35 cents.
(42) **Havils.** Ball Weeder, 35 cents. (35) Pond's No. 1 with blade 1¼ in. wide by 8 in. long, 35 cents. No. 2, 1¾ in. wide by 8½ in. long, 40 cents.
Perfection. Weeder and rake combined, 35 cents.
Sargent. Malleable iron with wood handle, has 5 teeth like a claw, 35 cents.

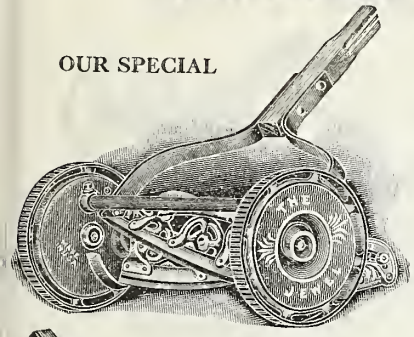
ASPARAGUS BUNCHERS

Asparagus Bunchers. No. 1, well shaped bunches, 3-3½ inches in diameter, weighing about 1 lb., $2.50; No. 2, shapes bunches 4-5 inches in diameter, weighing about 2 lbs., $2.75.



LAWN MOWERS AND GRASS CATCHERS

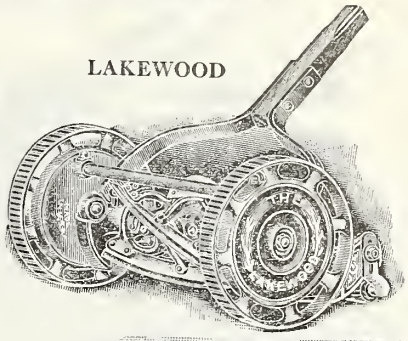
OUR SPECIAL



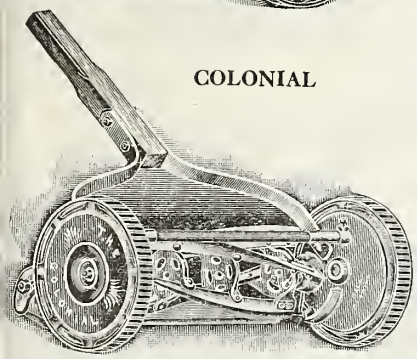
Our Special. This mower is made especially for us, having an 8 in. drive wheel, four blades in revolving cutter, bottom knife of hardened crucible steel. Split bronze adjustable bearings. Constructed throughout of the best material. A low priced, high grade mower for the ordinary home lawn. Price 14 in. $5.50, 16 in. $6.00.

Lakewood. A high grade 4-blade ball-bearing mower. Nine inch drive wheel. Has a positive lock adjustment to bearing. Bottom knife of the best steel. Self-sharpening. Price 14 in. $10.00, 16 in. $11.00, 8 in. $12.00

LAKEWOOD

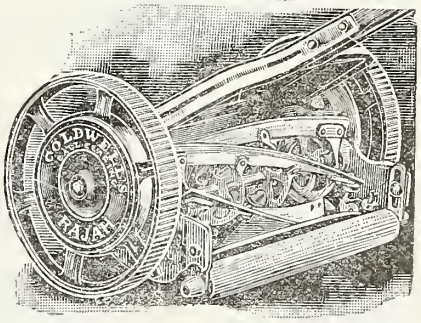


COLONIAL

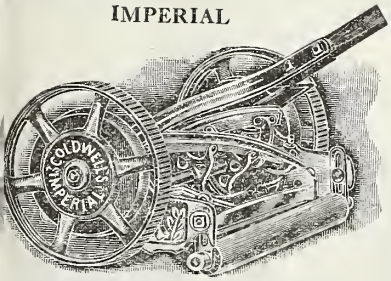


Colonial. This mower is made to meet the demand for a good ball-bearing mower at a reasonable price, having an 8 in. drive wheel, four blades in revolving cutter and bottom knife of tool steel. Simple adjustment to ball-bearing, and an easy mower to operate. Price 14 in. $7.50, 16 in. $8.00, 18 in. $8.50.

Rajah. A strictly high grade ball bearing machine, having a 10½ inch drive wheel, five blades in revolving cutter, internal gears, direct drive, double edged bottom knife, self-sharpening. Price 14 inch $15.00, 16 inch $15.50, 18 inch $16.00

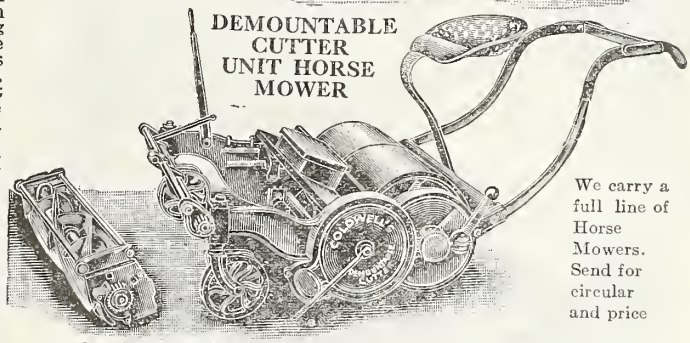


IMPERIAL



Imperial. One of the highest grade on the market, having a 10½ in. drive wheel. Five blades in revolving cutter, set in a patent split bronze adjustable hanger. Bottom knife reversible, channel shape having double cutting edge of the hardest steel made. Triple pawl in each drive wheel. Finish and construction of the best. Self-sharpening. Price 14 in. $14.00, 16 in. $15.00, 18 in. $16.00

DEMOUNTABLE CUTTER UNIT HORSE MOWER



We carry a full line of Horse Mowers. Send for circular and price

Pennsylvania Jr. High wheel, ball-bearing. The best known mower for all classes of work. Price 15 in. $25.00, 17 in. $28.00, 19 in. $31.00.

Pennsylvania Jr. Low wheel. Ball-bearing. Same general construction as high wheel, but lighter in weight. Price 12 in. $15.00, 14 in. $17.00, 16 in. $19.00.

(50) Capitol Lawn Trimmer and Edger. Does what Lawn Mowers leave undone. Having one side without wheel, it can be run close to walls and trees, cutting grass clean and quick. Can also be used for trimming edges of walks, etc.: 4 steel blades, 8 in. wide. Price, $7.00 complete.

POWER MOWER. Price on application. Send for full descriptive matter.

GRASS CATCHER

All Canvas. Fits readily to any mower. No 1, 60 cents; No. 2, 75 cents.

Henley Simplex. Galvanized bottom and heavy canvas top. No. 1 for 12 to 16 inch mower $1.50. No. 2 for larger, $1.75.

Braun. Canvas side and heavy steel bottom made especially for Pennsylvania Lawn Mower from 12 to 14 inches, $2.50; 15 to 17 inches $2.75; 18 to 21 inches $3.00.

Raffia—For Making Indian Baskets

Basket making by the Indian is not merely a passing whim, but a true work of art into which they weave their hope, desire, love, religion, poetry, national pride, and mythology. You too can make your baskets your own, your sculpture, your painting and they will be a joy forever.

The beautiful and useful articles that can be made of this material besides Indian Baskets are so numerous that space will not allow us to mention more than a few of them, such as Hats, Table Mats, Opera or Hand Bags, Sofa Pillows, etc.

We carry in stock large quantities of the Reeds and Raffia for making Indian Baskets.

PRICE LIST—RAFFIA

Natural, per bunch (2¾ ozs.)..$0.10 Colored, per ¾ oun e.....$0.08
Natural, per pound ..... .60 Colored, per pound..... 1.50
Postage parcel post rate. Needles, per dozen .15

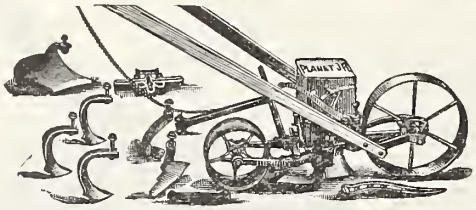
LIST OF COLORS

Black, Lavender, Pink, Purple, Blue Light Brown, Medium Brown, Dark Brown.
Medium Red, Indian Red
Light Green, Medium Green, Olive Green Orange, Yellow
Send for sample of colors.

REEDS

Put up in 10 cent bunches. Price quoted by the pound on application.
All above prices on Raffia and Reed subject to change without notice.

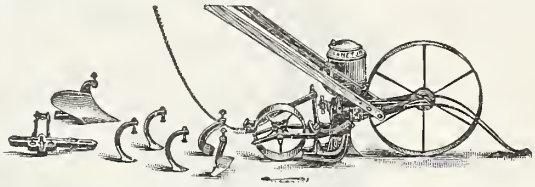
"PLANET JR." FARM AND GARDEN TOOLS



"The best is always the Cheapest"
Send for "Planet Jr." Catalogue

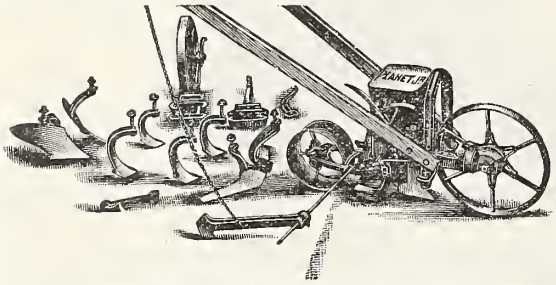
NO. 4 COMBINED SEED DRILL, SINGLE WHEEL HOE CULTIVATOR AND PLOW

This is the most popular combined tool made. It combines in a single implement, a first-class hill-dropping seeder, a single wheel hoe or weeder, a cultivator and a plow. As a wheel hoe it is identical with the "Planet Jr." No. 17 Single Wheel Hoe, the very best machine on the market. Price complete $17.25. As seeder only $14.25.



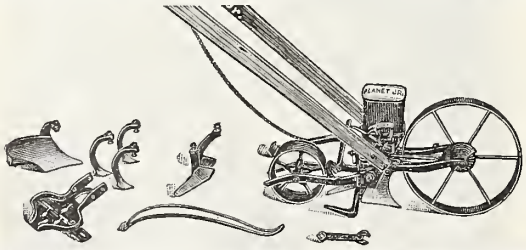
NO. 6 HILL AND DRILL SEEDER AND SINGLE WHEEL HOE

This seeder is the latest and most perfect development of the hand seed drill. It sows evenly in drills and also drops in hills at 4, 6, 8, 12 and 24 inches apart. It is thrown out of gear instantly by moving a convenient lever, or the flow of seed is stopped by pushing down feed rod. No time is lost, no seed is wasted. It is quickly set to sow the different kinds of seeds, in the exact thickness required. The accurate hill-dropping drill, which gives a regular stand of plants with the least seed, saves its cost over and over again in seed alone. Price complete, $23.75; as a drill only, $20.00.



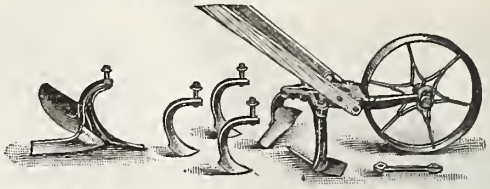
NO. 25 COMBINED HILL AND DRILL SEEDER, DOUBLE WHEEL HOE, CULTIVATOR AND PLOW

This combined machine is intended for gardeners who have a large enough acreage in crops for a double wheel hoe to be used to good advantage, and prefer not to buy separate machines. As a wheel hoe it is identical with the "Planet Jr." No. 12 Double Wheel Hoe, the very best machine on the market. Price $20.75.



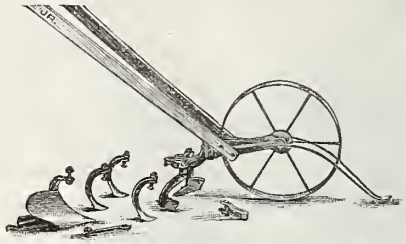
NO. 28 COMBINED HILL AND DRILL SEEDER, SINGLE WHEEL HOE

This machine is the most complete tool for heavy work. It has a large hopper box the most improved index. The method of dropping the seed is the latest. The operator can seed the seed drop at all time. Price complete $23.70, as a wheel hoe $13.25



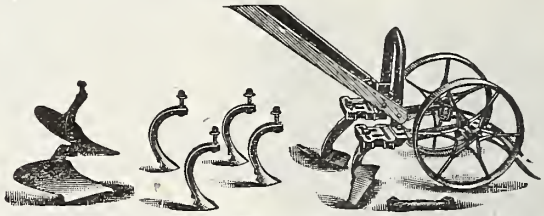
NO. 17 SINGLE WHEEL HOE, CULTIVATOR AND PLOW

For easy gardening, and at the same time clean and perfect gardening, nothing is quite the equal of this No. 17 Wheel Hoe. It is suited to all kinds of garden cultivation and all garden crops. The No. 17 has a pair of 6 inch hoes, a plow, and a set of cultivator teeth, an outfit sufficient for most garden work. Price, $8.25. No. 16, with a pair of rake and leaf-lifters in addition to the above equipment. Price, $9.75. No. 17½, with hoes, cultivator teeth and leaf-lifter. Price, $7.35. No. 18, with hoes only. Price $6.25. The above has high wheels.



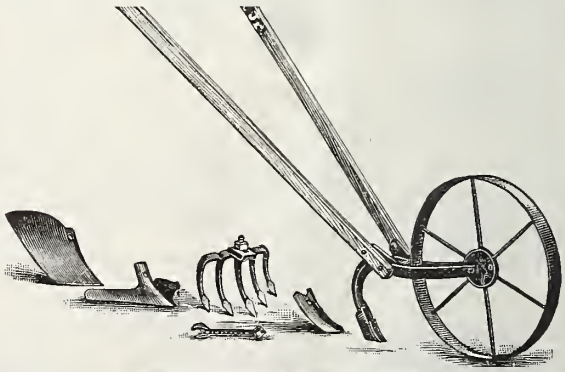
NO. 36 SINGLE WHEEL HOE CULTIVATOR

This machine is the heaviest of all the wheel hoes in the Planet Jr. line. It has a large wheel which makes it easy to operate Especially adapted to heavy soils. Price $10.50.



NO. 12 DOUBLE WHEEL HOE, CULTIVATOR AND PLOW

Two acres a day can easily be worked with this implement, and when it is done it will be a better job than three men could have done in the same time with hand hoes. The No. 12 runs either astride or between the rows; kills all the weeds and leaves the earth in fine shape. The No. 12 has a pair of 6 inch hoes, a pair of plows for opening or covering, and a set of four all-steel cultivator teeth. High wheels, price $11.75.

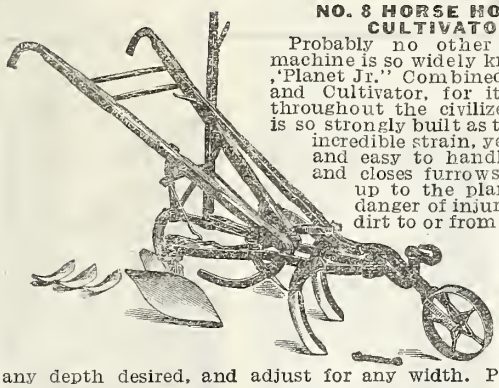


NO. 19 SINGLE WHEEL HOE

This machine has a very high wheel making it easy to run. It is especially adapted to the home gardener. It has cultivator blades for deep work and for marking out rows for planting, a sweep for leveling the ground and a good plow for furrowing. Price $6.35.

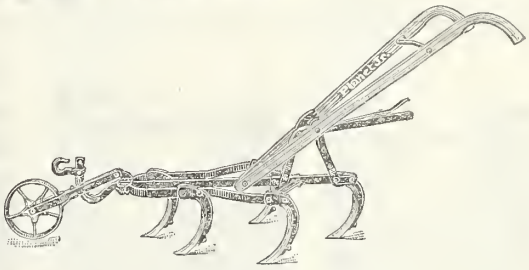
All the above have high wheels.

"PLANET JR." HORSE TOOLS



NO. 8 HORSE HOE AND CULTIVATOR

Probably no other cultivating machine is so widely known as the "Planet Jr." Combined Horse Hoe and Cultivator, for it is in use throughout the civilized world. It is so strongly built as to withstand incredible strain, yet it is light and easy to handle. It opens and closes furrows, hoes right up to the plants without danger of injuring, throws dirt to or from the row and back from centeragain. You can set the hoes at any angle or reverse altogether, cultivate to any depth desired, and adjust for any width. Price $13.50.



NO. 101 HORSE CULTIVATOR

This machine is the latest word in a light 5 tooth cultivator. the lever is placed between the handles close to operator and can in no possible way injure the crops. Price $13.00

GARDEN HOSE, ATTACHMENTS, ETC.

We want to warn everyone not to leave their hose out in the sun, when not in use, as the water left in it gets warm and will rot out the best of hose.

Goodrich Red Tube Corrugated Non-Kinkable Hose. Guaranteed two years. Sold in any length. Price ½ inch 20 cents, ¾ inch 22 cents per foot.

Meteor. A medium priced moulded hose. Guaranteed for one year and three months. Sold in any lengths; ½ inch 14 cents, ¾ inch 16 cents per foot.

Germain's Guaranteed Special Hose. The best in the market for the money. Each piece with our guarantee stamped on it. ½ inch 10 cents, ¾ inch 12 cents per foot in 25 and 50 foot lengths.

Washer Retainer. Keeps the washer firmly in the coupling; 5 cents each, six for 25 cents.

Hose Couplings Brass; ½ inch and ¾ inch 25 cents per pair.

Perfect Clincher Hose Couplings Brass. Self-fastening without extra bands; 35 cents per pair.

Magic Hose Bands. Wire fastenings for couplings two for 5 cents or 25 cents a dozen.

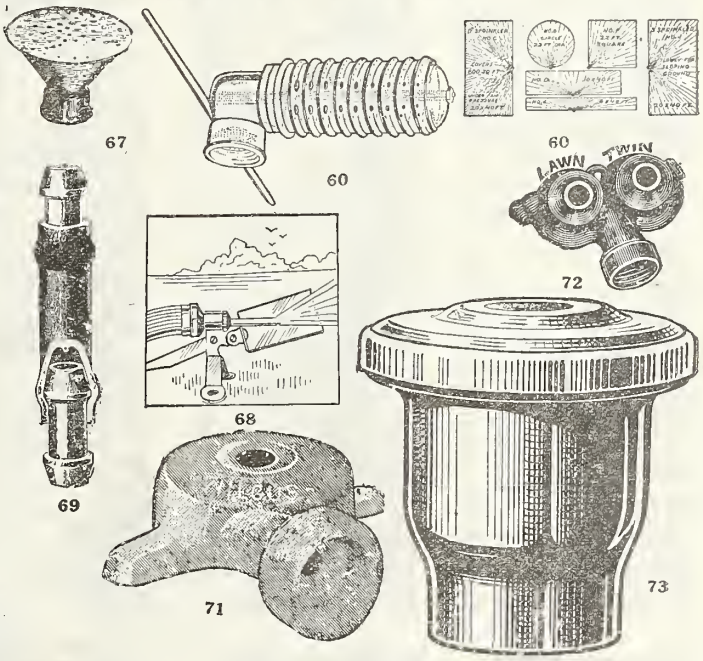
Sherman Hose Bands. Flat brass bands, 5 cents each.

Rubber Hose Washers; 5 cents per dozen, 75 cents per pound.

(69) Hose Menders Wood; ½ and ¾ inch, 15 cents a dozen.

(66) Hose Menders the Copper Brass. Holds itself by small, sharp teeth without extra fasteners; ½ and ¾ inch 10 cents each. Three for 25 cents.

Perfect Clincher Hose Mender. Brass tube 15 cents each, all steel 10 cents each.



LAWN SPRINKLERS

(60) B. The only one that will sprinkle square corners and does not waste the water. It always has a dry side so that you can change position without getting wet. Made in six different shapes, as per cut. Order shape best suited to lawn. Price $2.00.

(68) O. K. Gives almost any shaped spray desired by simply moving the spray plate; 40 cents each.

(71) Wilgus, 50c. **(72) Twin** brass lined, 40c.

Pacific Revolving Spray for Large Lawns. Price No. 1 $2.75, No. 2 $4.00, No. 3 $6.00, No. 3 medium $5.00, No. 5 on tripod $7.00.

Faultless. Mounted on 2-inch stand, 85 cents.

(73) Redlands. Sprinkler head for underground system for ½ or ¾ inch pipe. 50 cents each; $5.00 a dozen.

Dew Drop. 8-foot long galvanized iron, $2.00.

K. Reversible. 7-foot long, heavy brass, $2.00

HOSE NOZZLES

Garey & Ross. Hand spray fan shape, 85 cents.

(67) The Rose. Heavy round brass, 90 cents. Boston Nozzle, 85 cents.

Diamond Nozzle; 35 cents each. **Stanley Jr.;** 25 cents.

Fountain Spray. Similar to rose but of lighter brass; 35 cents.

HOSE REELS

All steel; $2.00 and $2.50 each.

Wood. Reel arms and frame are of hardwood, $1.50.

SPRINKLING CANS

Common Galvanized. 4 qt. 65 cents. 6 qt. 85 cents, 8 qt. 90 cents, 10 qt. $1.25, 12 qt. $1.40.

MISCELLANEOUS

PLANTERS AND SEEDERS

(45) Corn, The Segment. The most accurate planter on the market. $1.75.

(41) Potato, The Acme. Has spring closed jaws. Especially designed to enter the ground easily and yet open wide enough to drop the potato at any depth desired. $1.50.

(40) Cahoon Seed Sower. The standard sower, superior to all other hand sowers. Gives perfect satisfaction and can be used for sowing alfalfa and all grains broadcast. Sows from four to eight acres per day at a common walking gait. $4.00.

(44) The Little Giant Seeders are the lightest running and best seeding machines on the market. They have Iron Frames, Malleable Brace, Force Feed, Pressed Tin Distributing Wheel, and hand hold on the side, and the stirrer is the most effective feeder placed on any machine. Price $2.50.

Master's Plant Setter. For planting cabbage, tobacco, celery and Isma plants of any kind. With this handy little tool you can set water and fertilize ten thousand plants per day. $5.50.

WHEELBARROWS

Wheelbarrow. This barrow is light but strong, has steel heel and axle. Well suited for gardeners' work. $5.50.

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